Nokia Care Academy

Service Manual for L1 and L2

Nokia Lumia 925

RM-892, RM-893, RM-910

Key features

- 8.7 Mpix PureView camera with OIS
- Built-in wireless charging support
- 4.5" AMOLED WXGA display
- New Lumia design with an anodized aluminum chassis

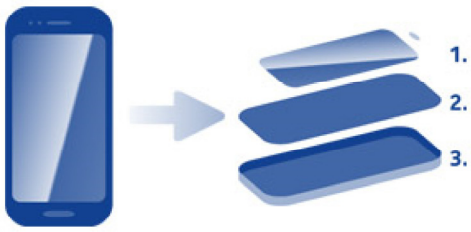
Version 1.0

Check the repair policy before performing any mechanical repair on Service Level 1&2!

Exploded view

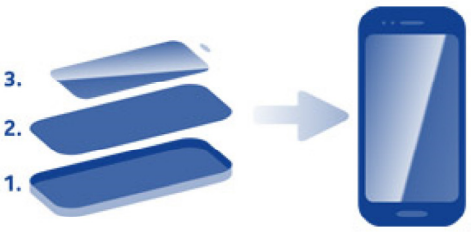
More

Disassembly steps



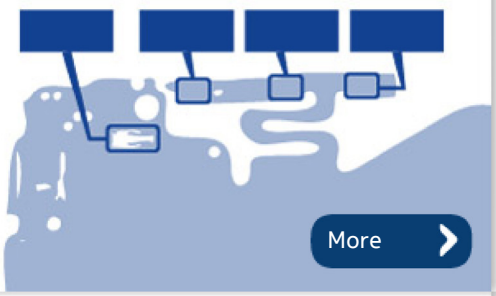
More

Assembly steps



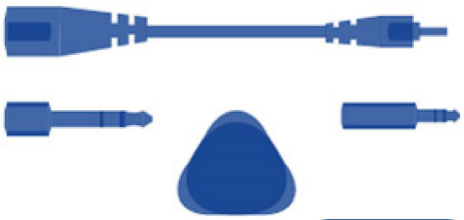
More

Solder components



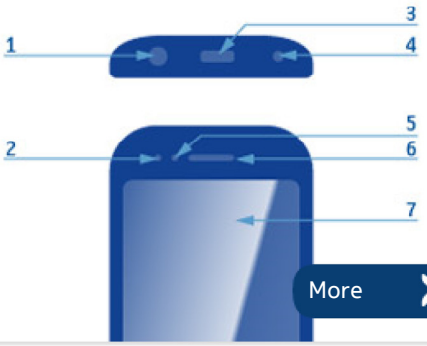
More

Service devices



More

Product controls and interfaces



More

Service concept

More

Phone reset

More

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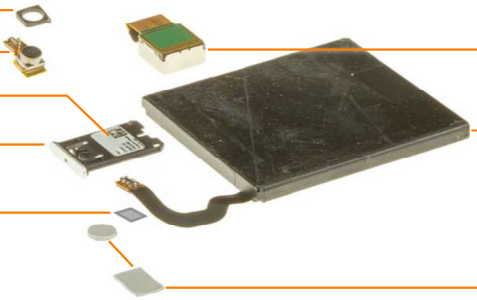
Exploded view

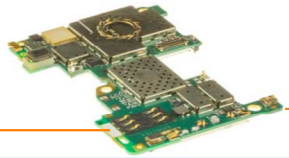
A1 DISPLAY ASSEMBLY
(I0001, I0002)

- METAL DECO I0001
- DISPLAY I0002



- CAMERA BOOT I0028
- FRONT CAMERA I0016
- A3 TYPE LABEL I0009
- L3 SIM TRAY I0029
- BATTERY CONNECTOR SUPPORT I0004
- CAMERA I0015
- BATTERY I0003
- THERMAL PAD I0024

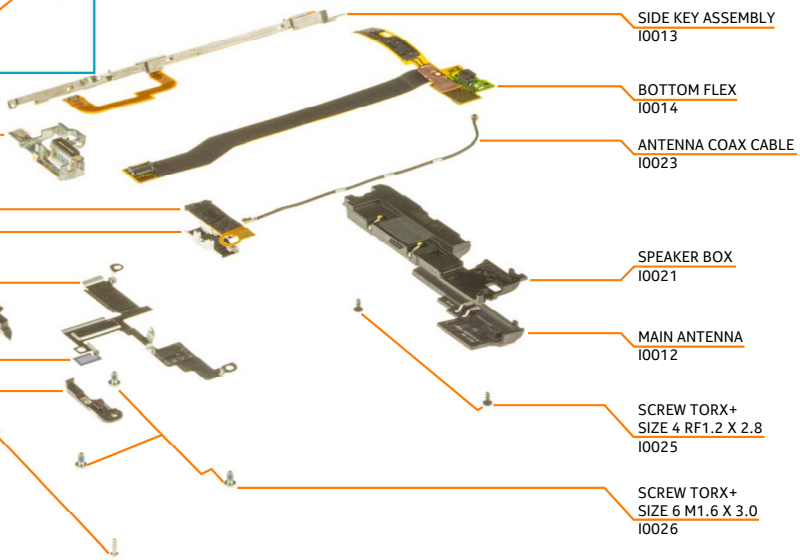
A3 LIGHT SWAP PACKAGE L3
(I0008, I0009)



- WATER INGRESS LABEL
- LIGHT SWAP PAWB I0008 L3

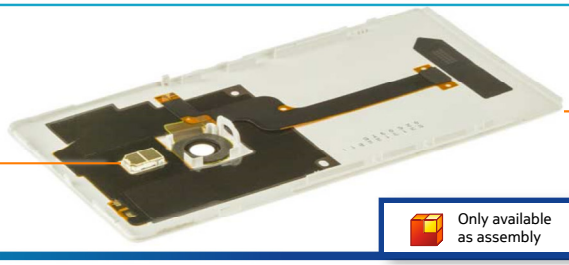
A4 CONNECTOR ASSEMBLY
(I0017 - I0019)

- MICROPHONE I0017
- AV CONNECTOR I0018
- USB CONNECTOR I0019



- CONNECTOR LATCH I0007
- VIBRA I0020
- VIBRA HOLDER I0030
- CONNECTOR SUPPORT FRAME I0022
- WLAN/GPS ANTENNA I0011
- WATER INGRESS LABEL
- MIMO ANTENNA I0010
- SCREW TORX+ SIZE 4 RF1.2 x 4.0 I0027
- SIDE KEY ASSEMBLY I0013
- BOTTOM FLEX I0014
- ANTENNA COAX CABLE I0023
- SPEAKER BOX I0021
- MAIN ANTENNA I0012
- SCREW TORX+ SIZE 4 RF1.2 X 2.8 I0025
- SCREW TORX+ SIZE 6 M1.6 X 3.0 I0026

A2 BACK COVER ASSEMBLY
(I0005, I0006)



- LED FLASH I0006
- BACK COVER I0005

Only available as assembly	Not reuseable after removal	Repair/swap only in level 3

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1) For disassembling you need the Nokia Standard toolkit version 2. You will also need the SIM door key, the SS-311 Back cover release tool, an AV plug, SS-317 Battery removal tool, SS-318 Protective cover and the SS-231 RF connector disassembly/assembly tool.

2) Protect the DISPLAY with protective film.

3) Release the SIM TRAY with the SIM door key and pull it out.

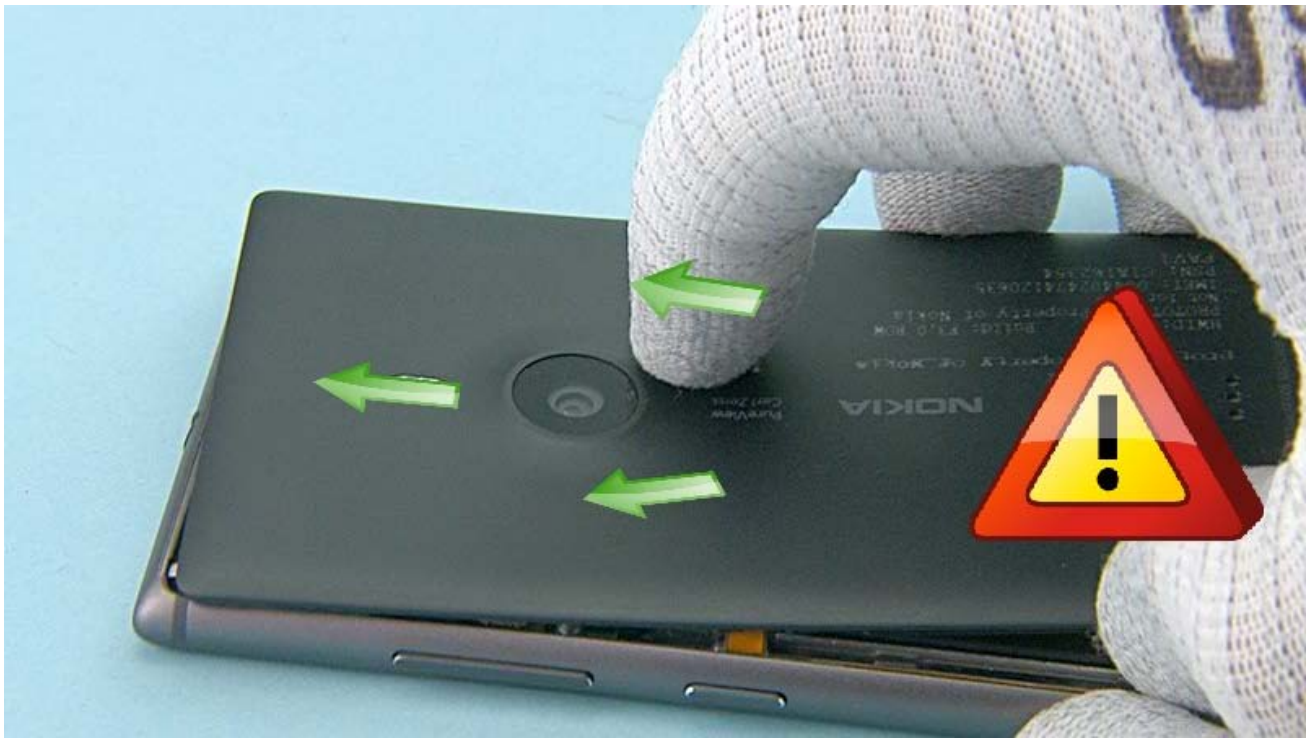
4) Release the shown corner of the BACK COVER with the SS-311 back cover release tool.

5) Release the top end of the BACK COVER with the SS-93 by sliding it to the direction shown. When releasing the BACK COVER, hold the SS-93 as shown to avoid damaging any components underneath the BACK COVER. Be also careful not to damage the clips holding the BACK COVER!

6) Slide the SS-93 to the direction shown to release the left side of the BACK COVER. Be careful not to damage the BACK COVER or any components underneath it!

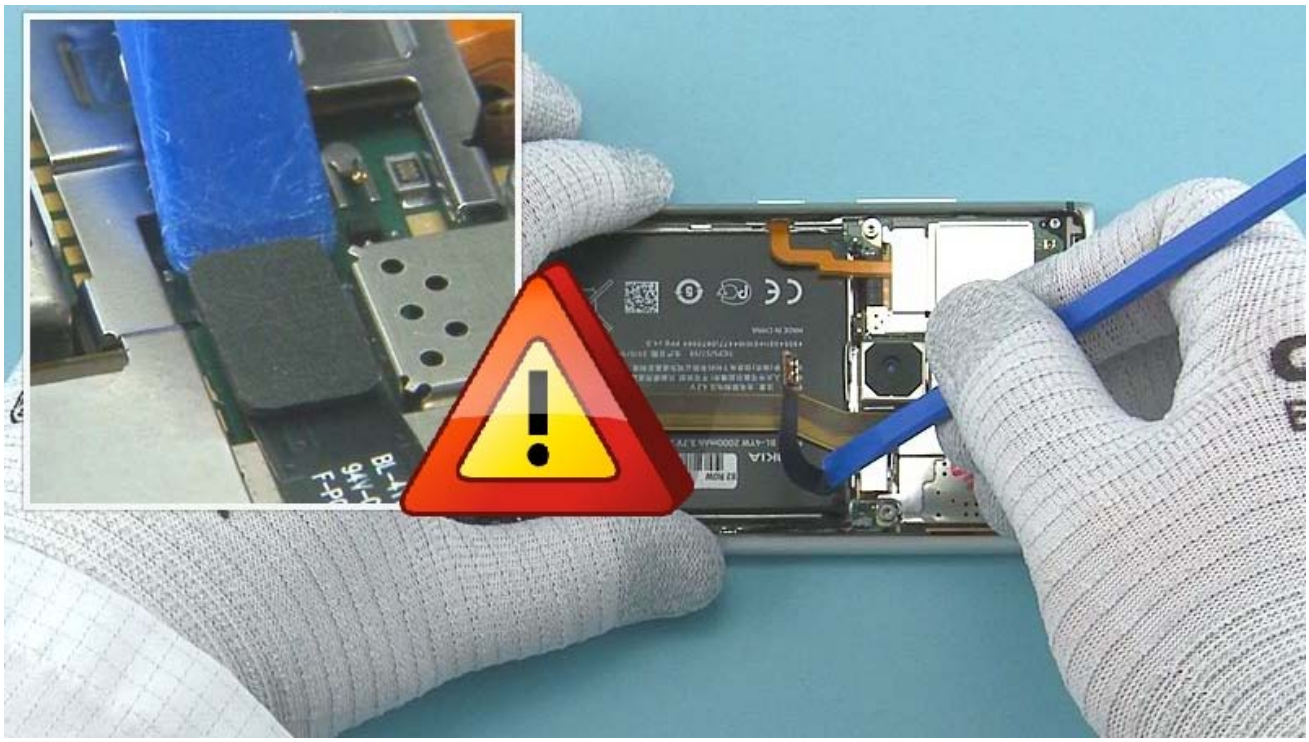
7) Slide the SS-93 to the direction shown to release the bottom end of the BACK COVER. Be careful not to damage the BACK COVER or any components underneath it!

8) Slide the SS-93 to the direction shown to release the right side of the BACK COVER. Be careful not to damage the BACK COVER or the ANTENNA COAX CABLE underneath it!

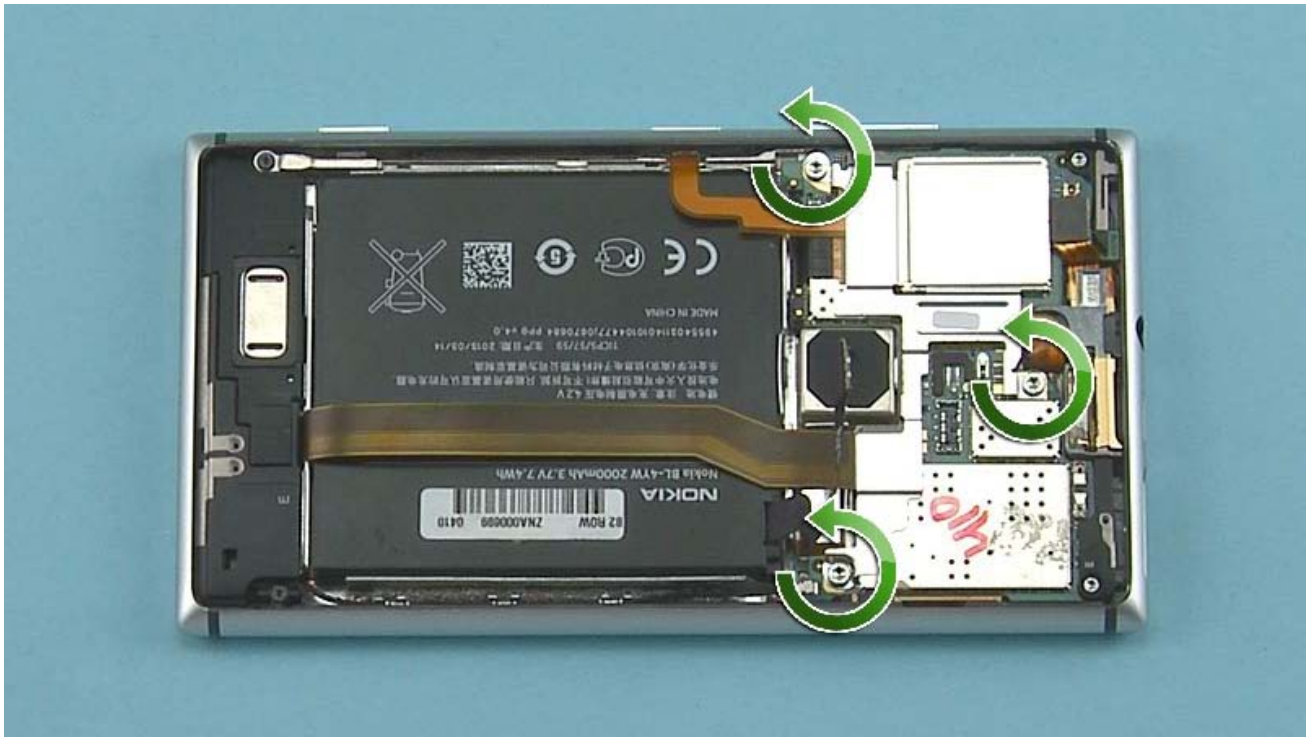


9) When all sides of the BACK COVER are open, release the camera clip by pulling BACK COVER up while gently turning and pushing towards top end of the phone. Be careful not to damage the BACK COVER camera clip!

10) Remove the BACK COVER. Check all the BACK COVER clips for damages. Check also the camera clip. In case any of the clips are damaged, discard the BACK COVER.

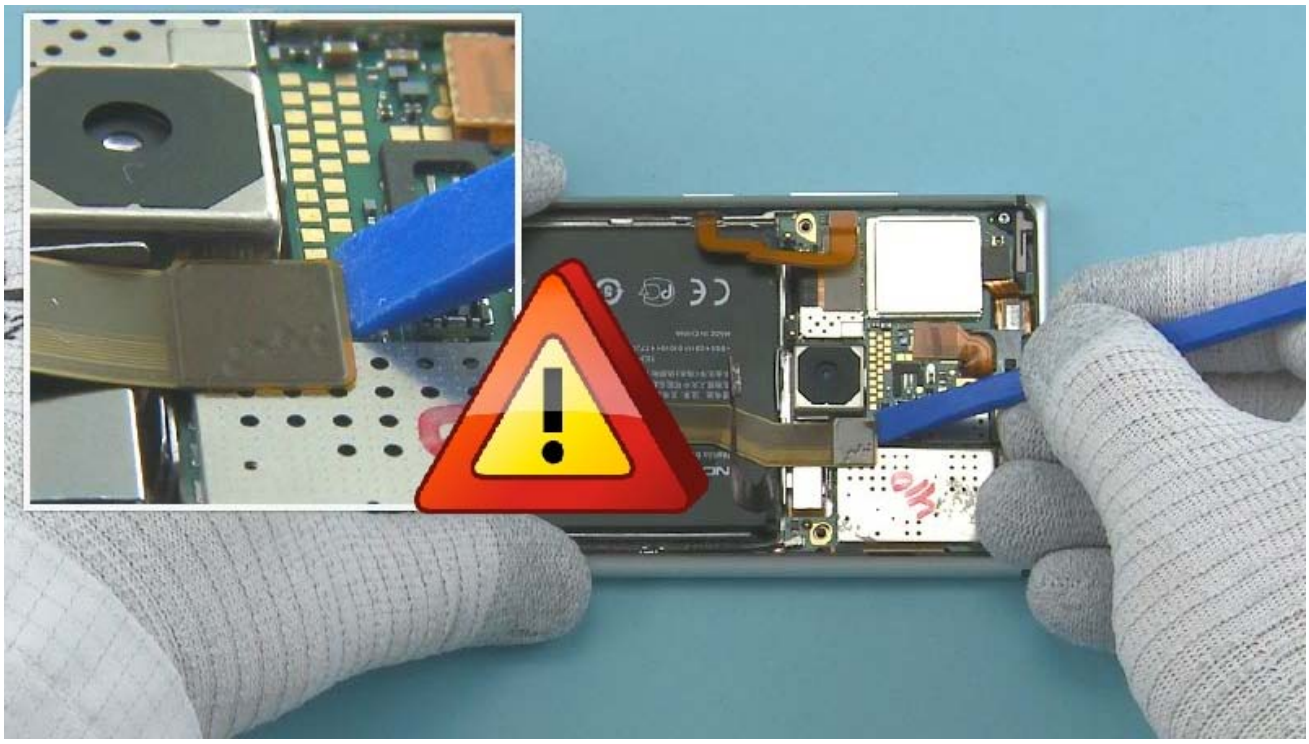


11) Open the BATTERY connector with the SS-93. Always open the connectors carefully to avoid damaging them or any components nearby.

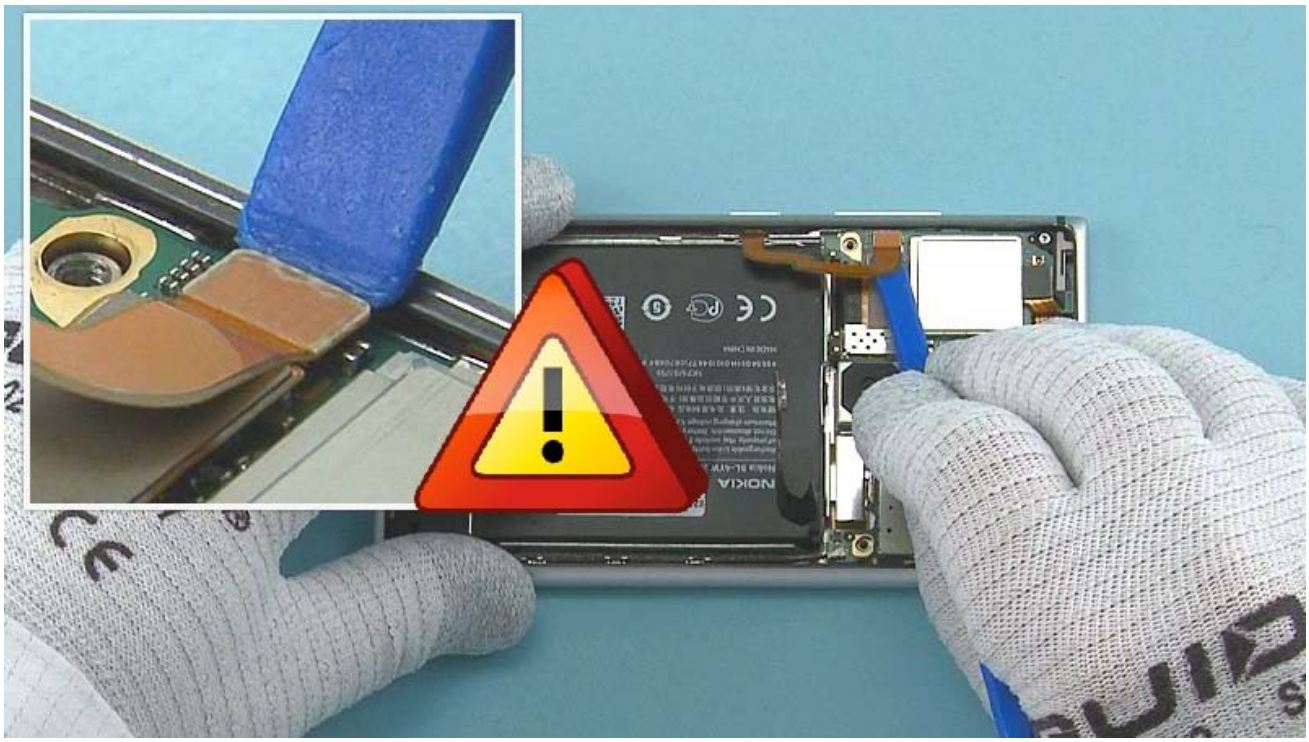


12) Unscrew the three Torx+ size 6 screws.

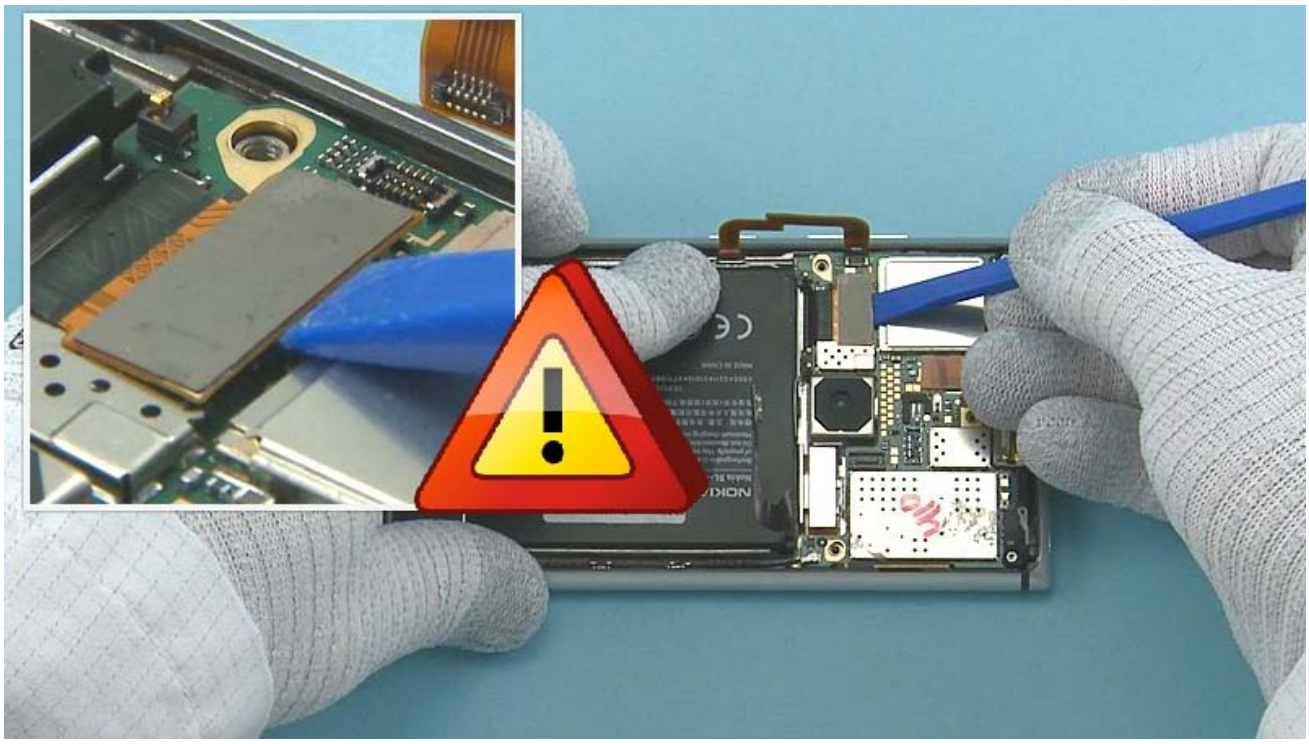
13) Remove the CONNECTOR SUPPORT FRAME with tweezers.



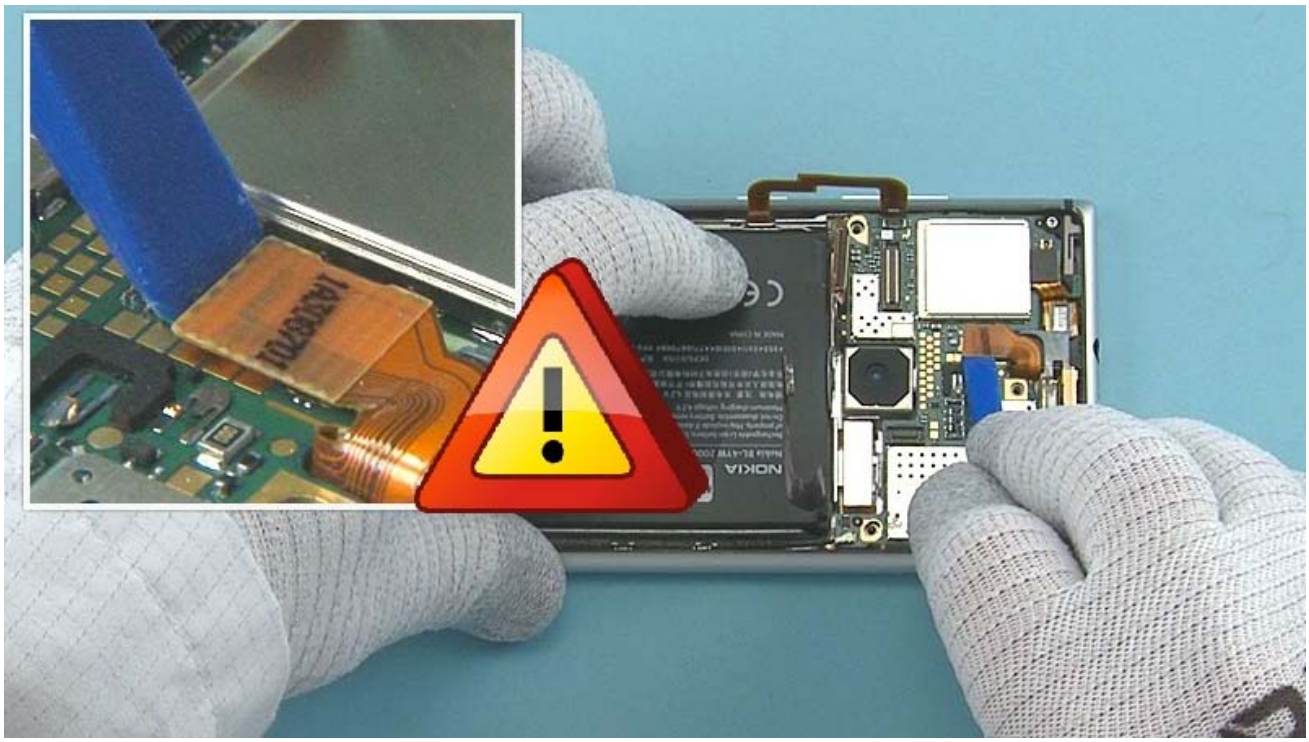
14) Open the BOTTOM FLEX connector with the SS-93.



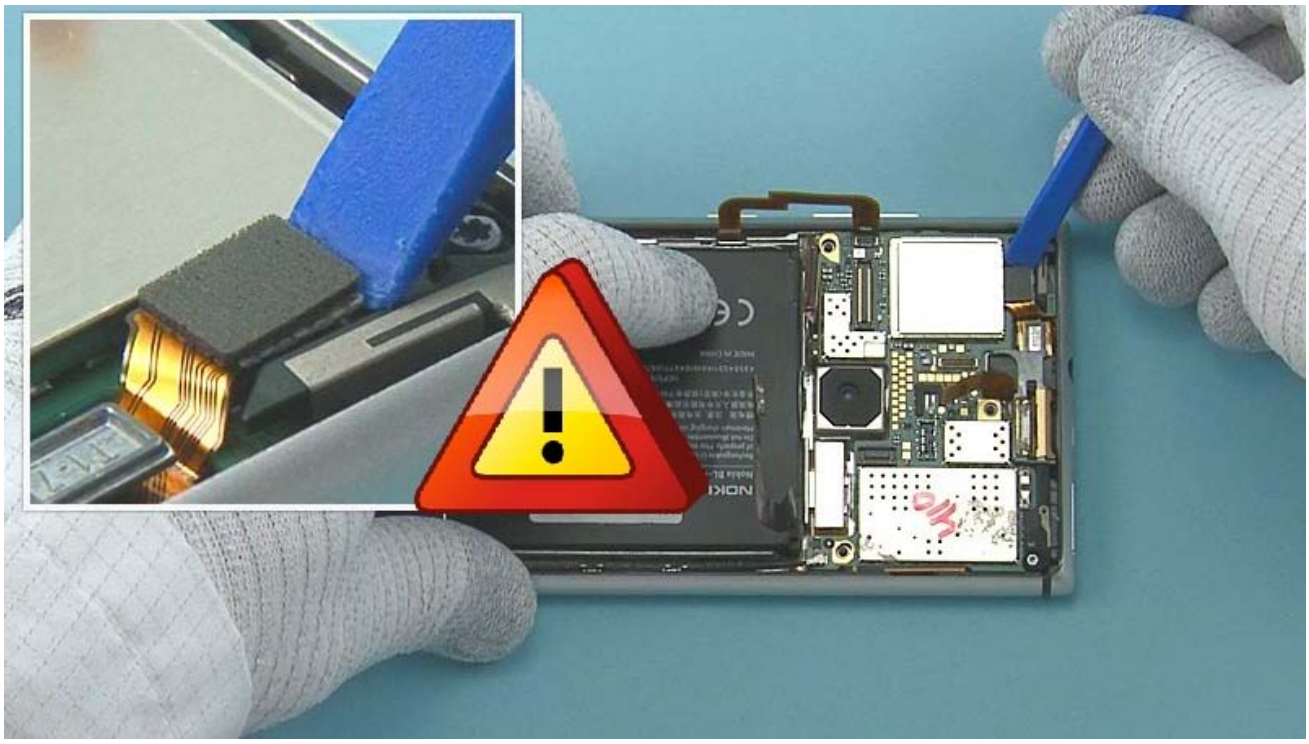
15) Open the SIDE KEY connector.



16) Open the DISPLAY connector.



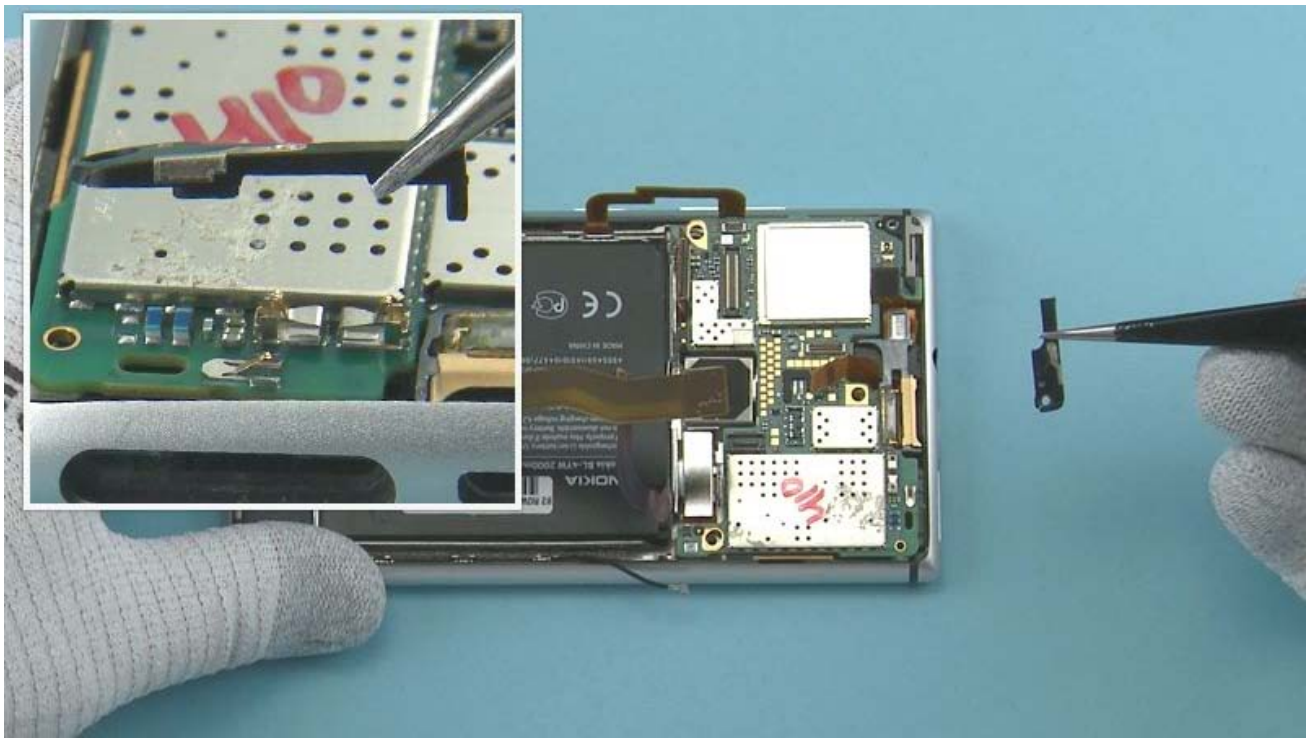
17) Open the CONNECTOR FLEX.



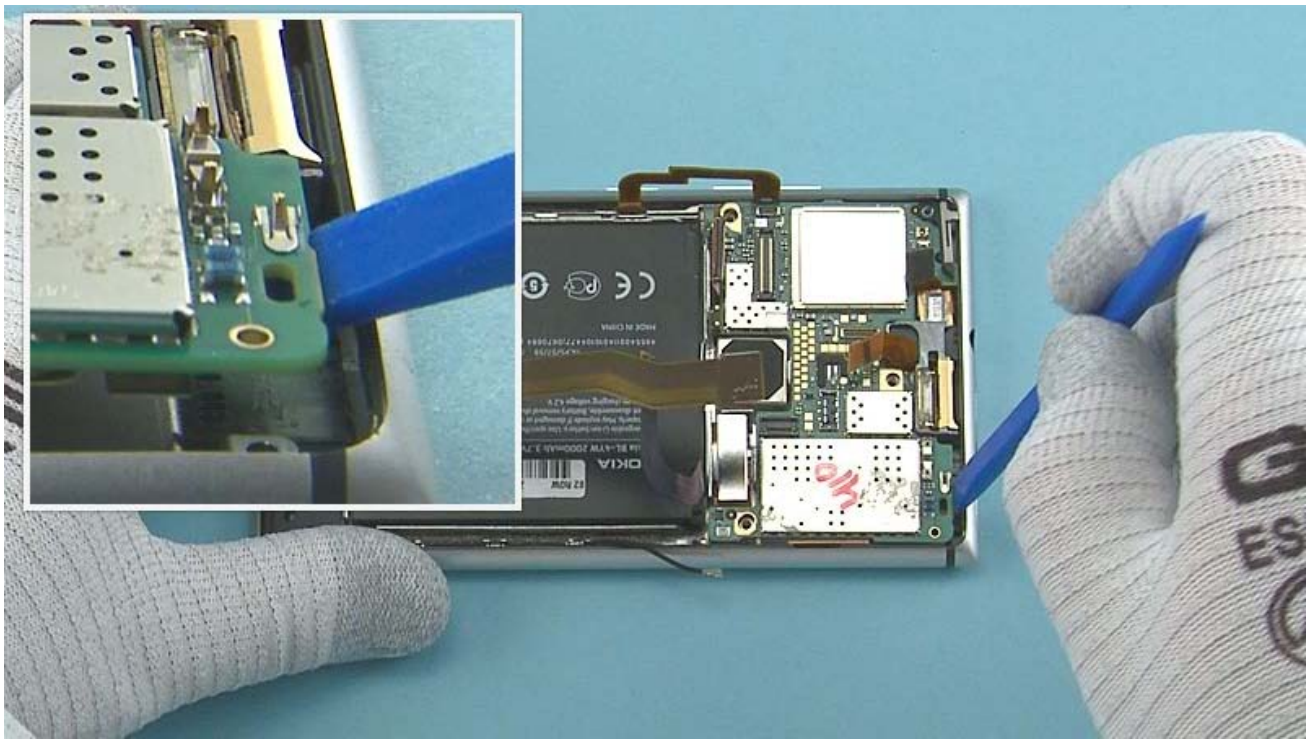
18) Open the FRONT CAMERA connector.

19) Disconnect the ANTENNA COAX CABLE connector from the ENGINE BOARD with the SS-231. Lock the SS-231 to the top of the connector as shown and lift it up carefully. Keep the other end of the ANTENNA COAX CABLE connected. Be careful not to damage the connector.

20) Unscrew the two Torx+ size 4 screws.

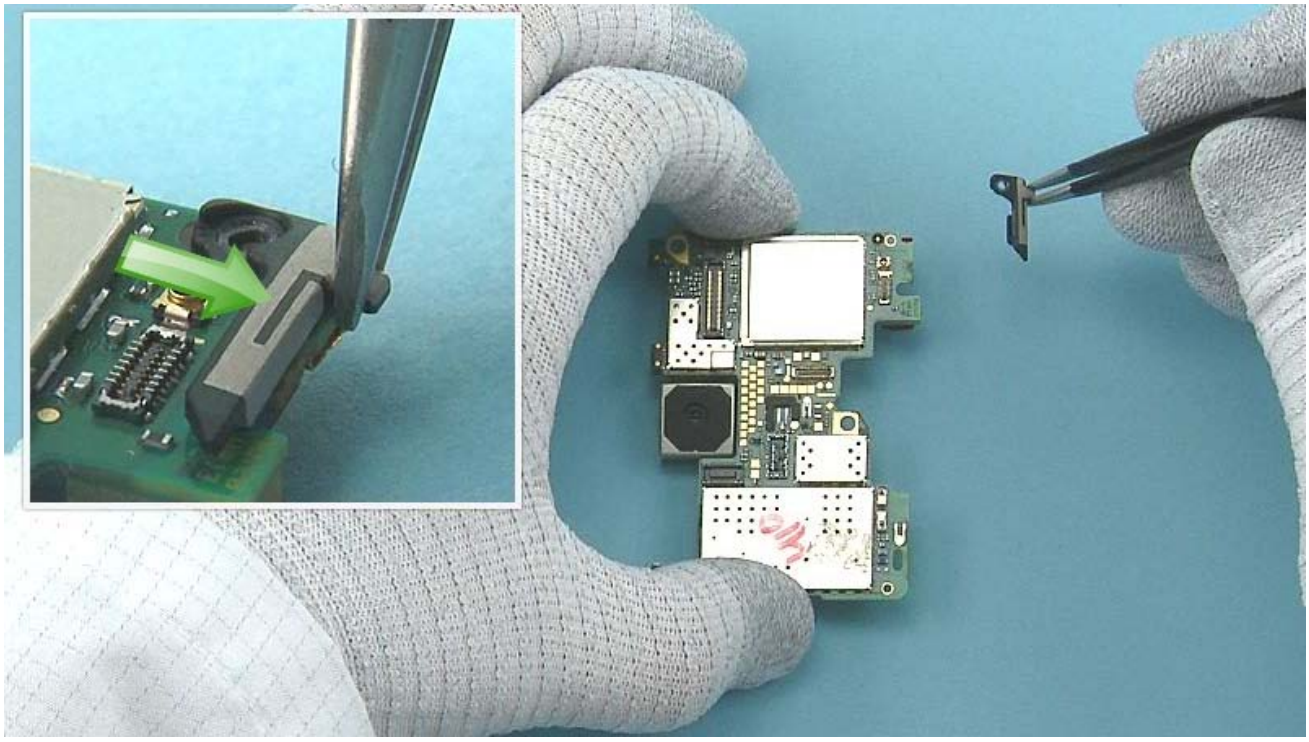


21) Remove the MIMO ANTENNA with tweezers.

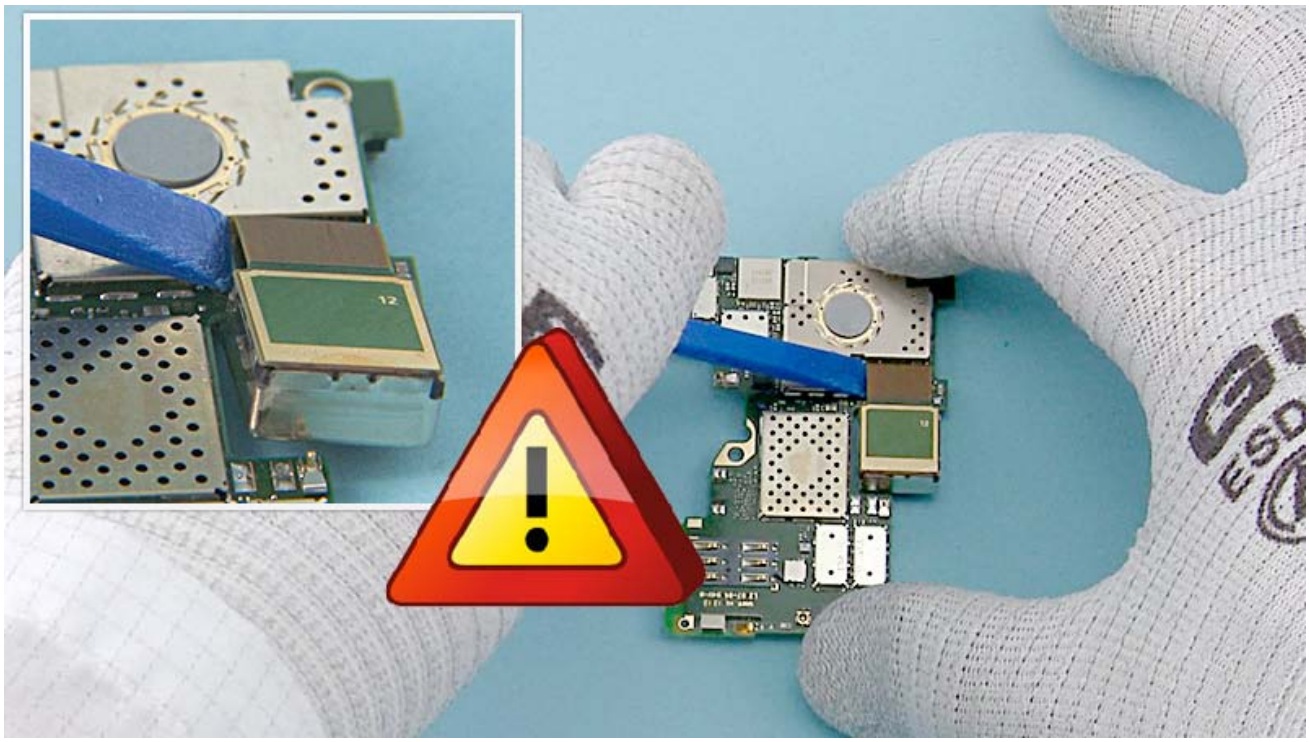


22) Release the ENGINE BOARD by lifting it up from the shown place with the SS-93.

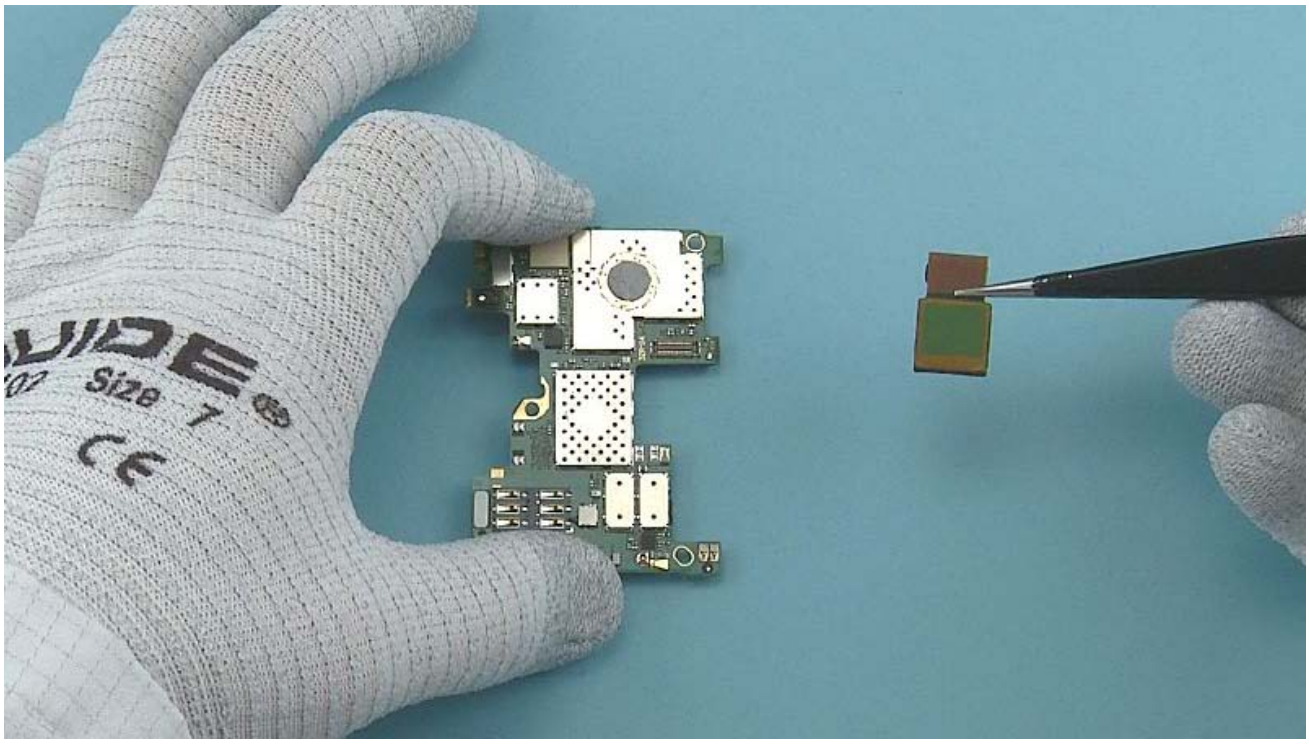
23) Lift up and remove the ENGINE BOARD. Be careful not to damage any of the flexes. Use the SS-93 to guide the flexes away from the ENGINE BOARD.



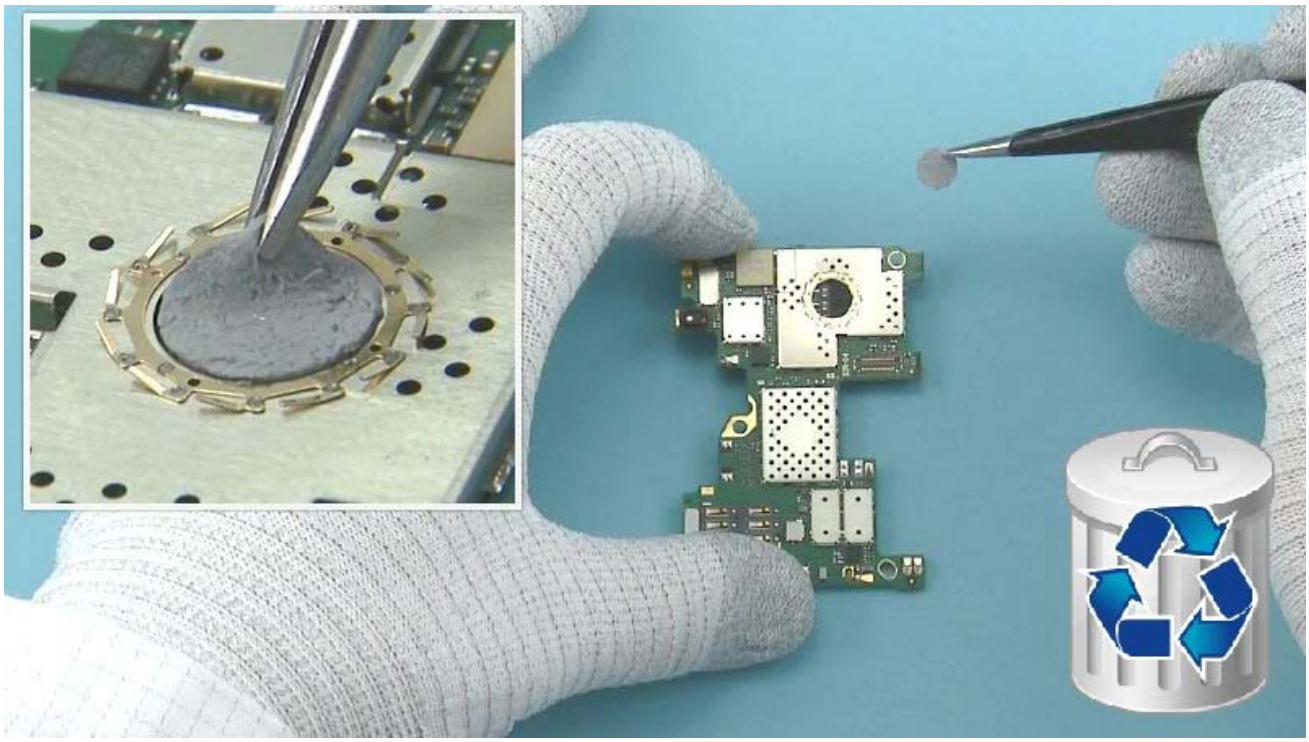
24) Pull the WLAN/GPS ANTENNA to the direction shown and remove it.



25) Open the CAMERA CONNECTOR from the shown side.



26) Remove the CAMERA.

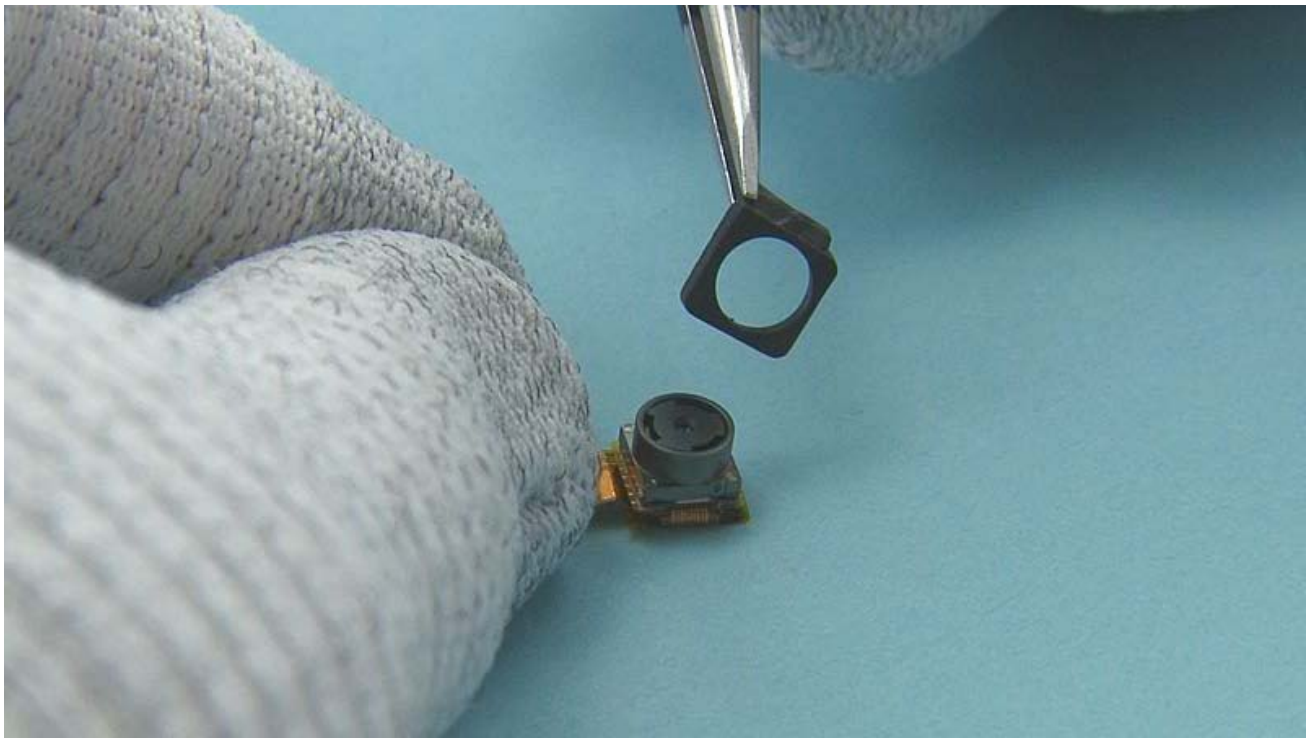


27) Remove and discard the THERMAL PAD.

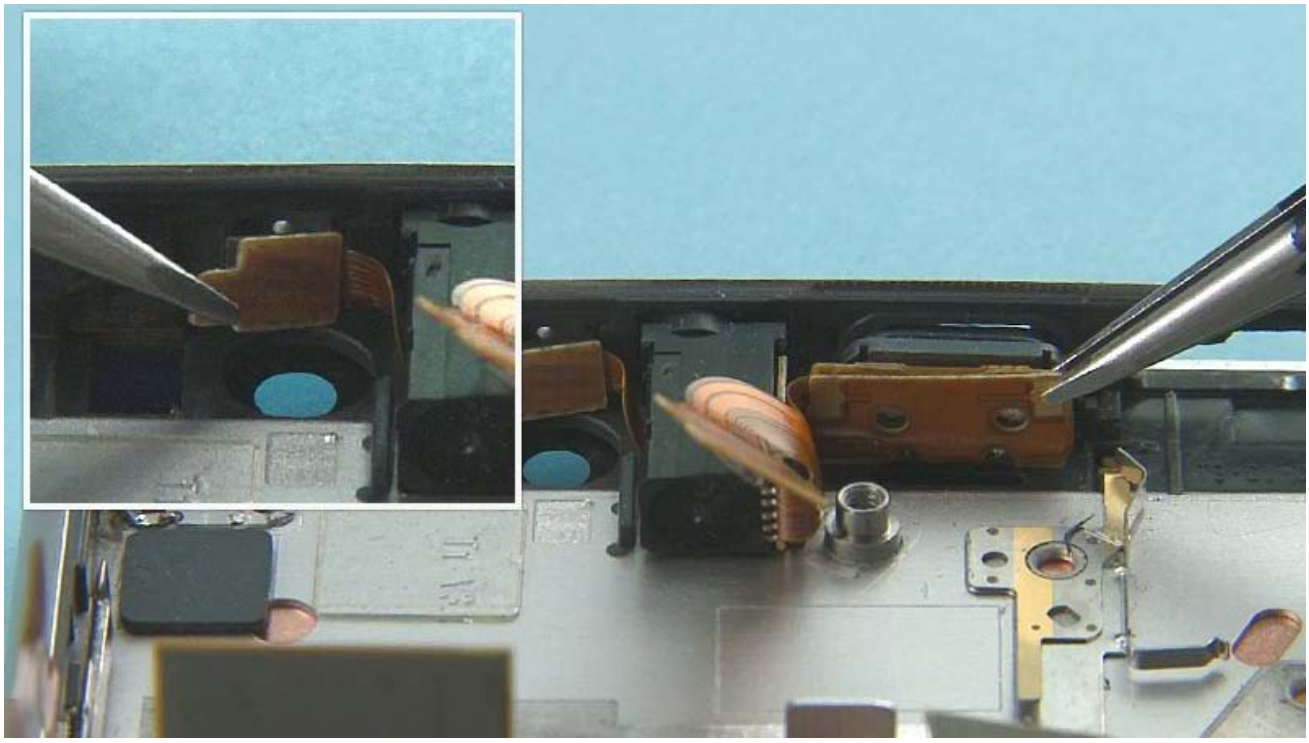
28) Release the CONNECTOR LATCH from the shown place.

29) Remove the CONNECTOR LATCH. Be careful not to damage the flex when guiding it through the CONNECTOR LATCH.

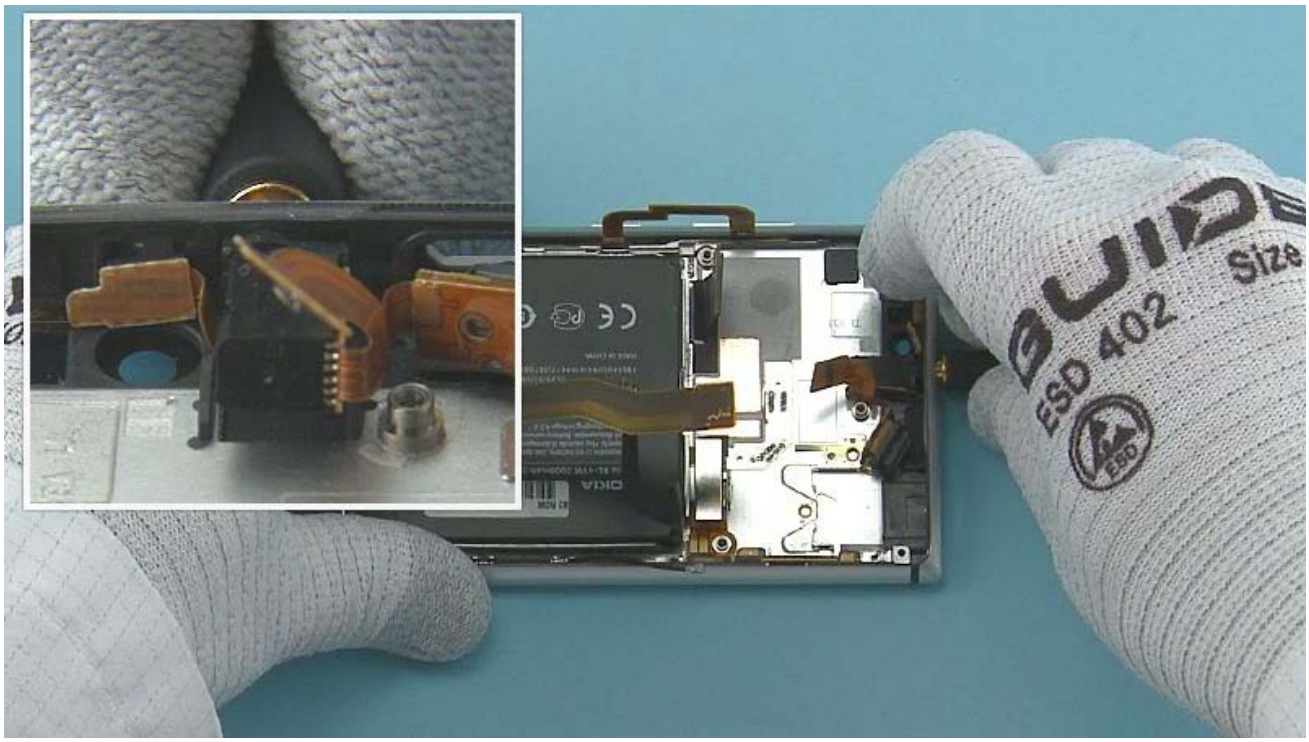
30) Remove the FRONT CAMERA.



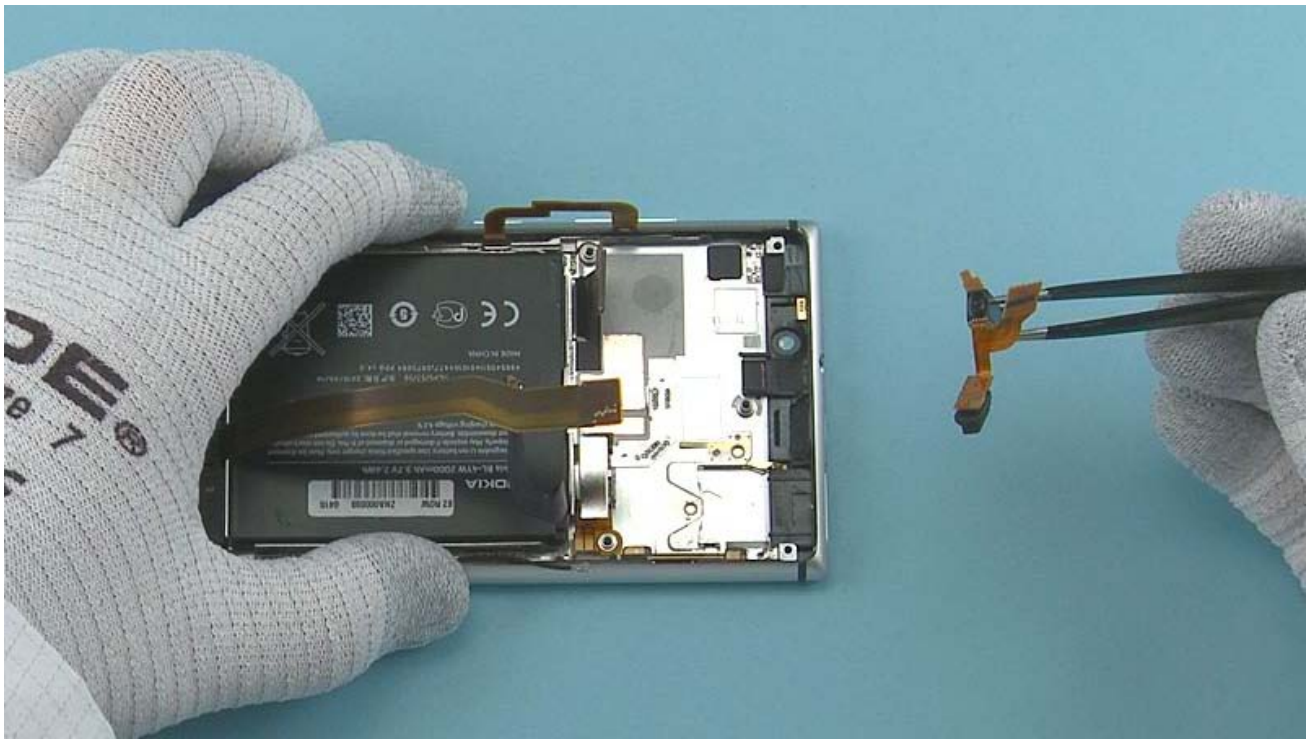
31) Remove the CAMERA BOOT from the FRONT CAMERA.



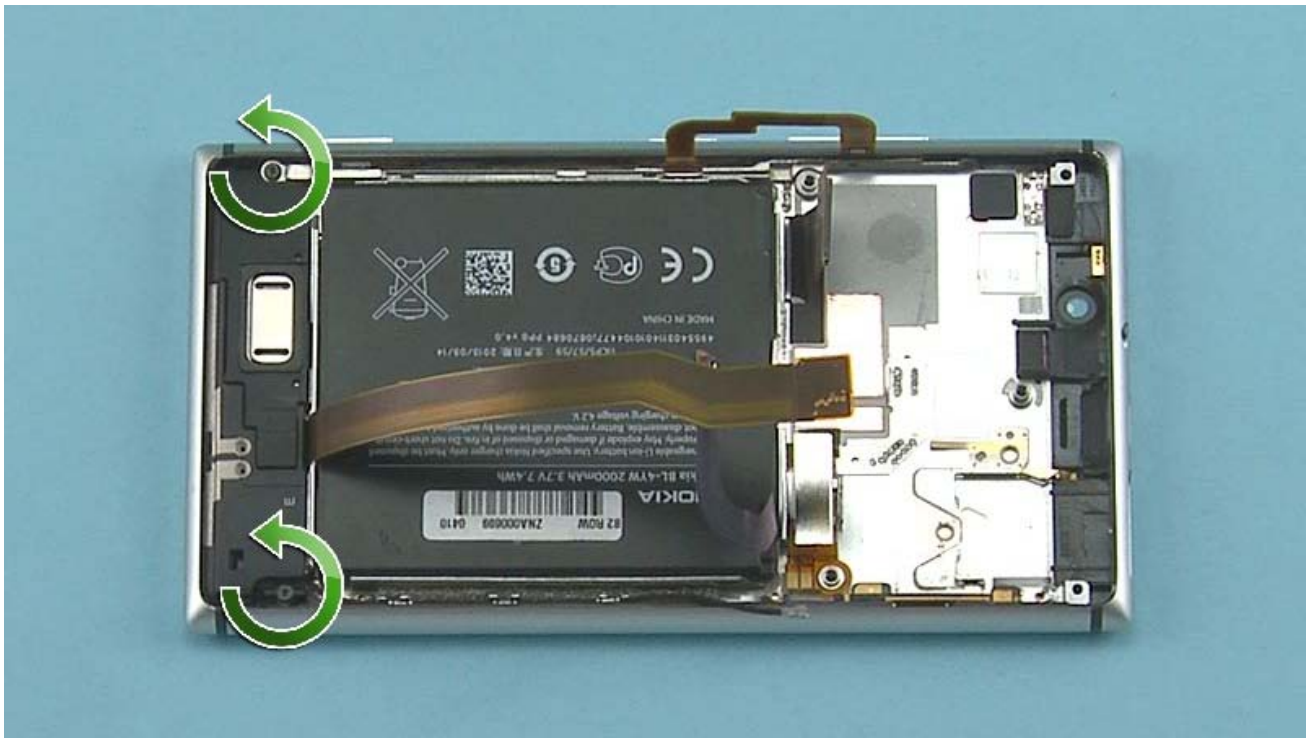
32) To remove the CONNECTOR FLEX, first gently pull the secondary microphone and the micro USB connector away from the METAL DECO ASSEMBLY.



33) Then lift up the CONNECTOR FLEX with an AV plug.



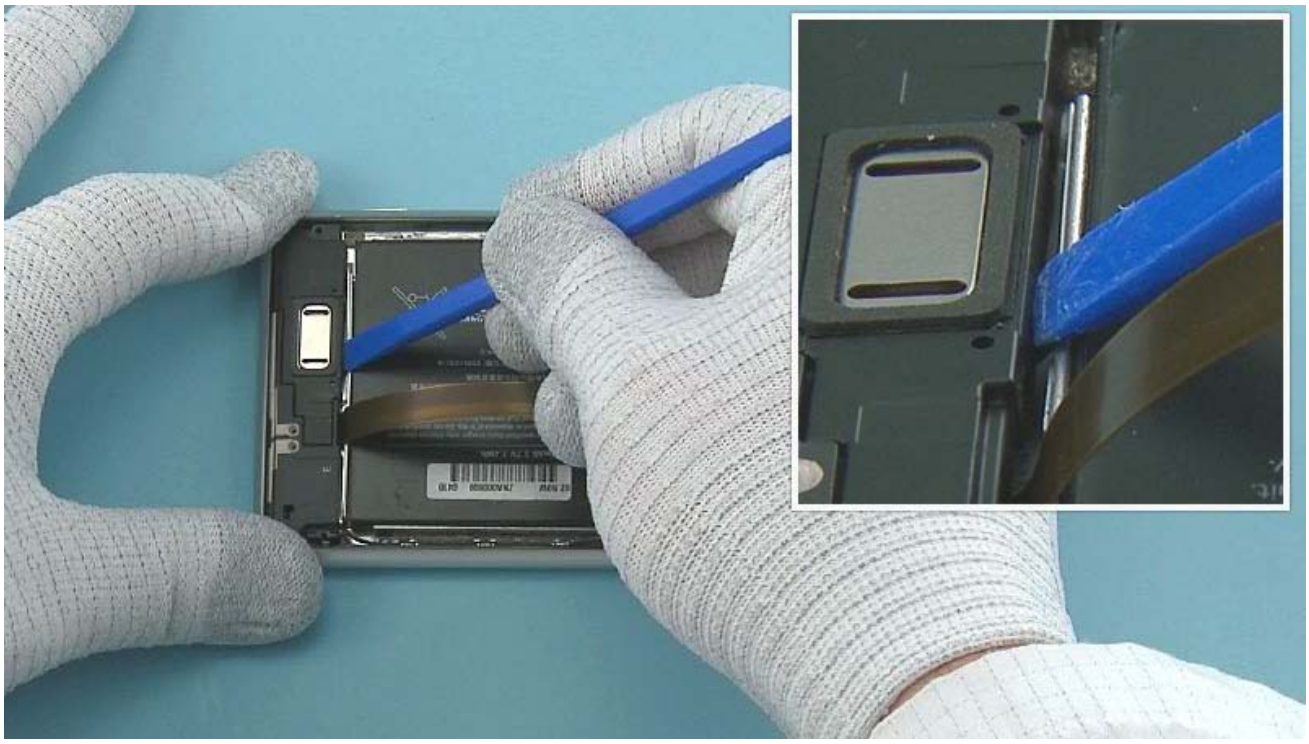
34) Remove the CONNECTOR FLEX.



35) Unscrew the two Torx+ size 4 screws.

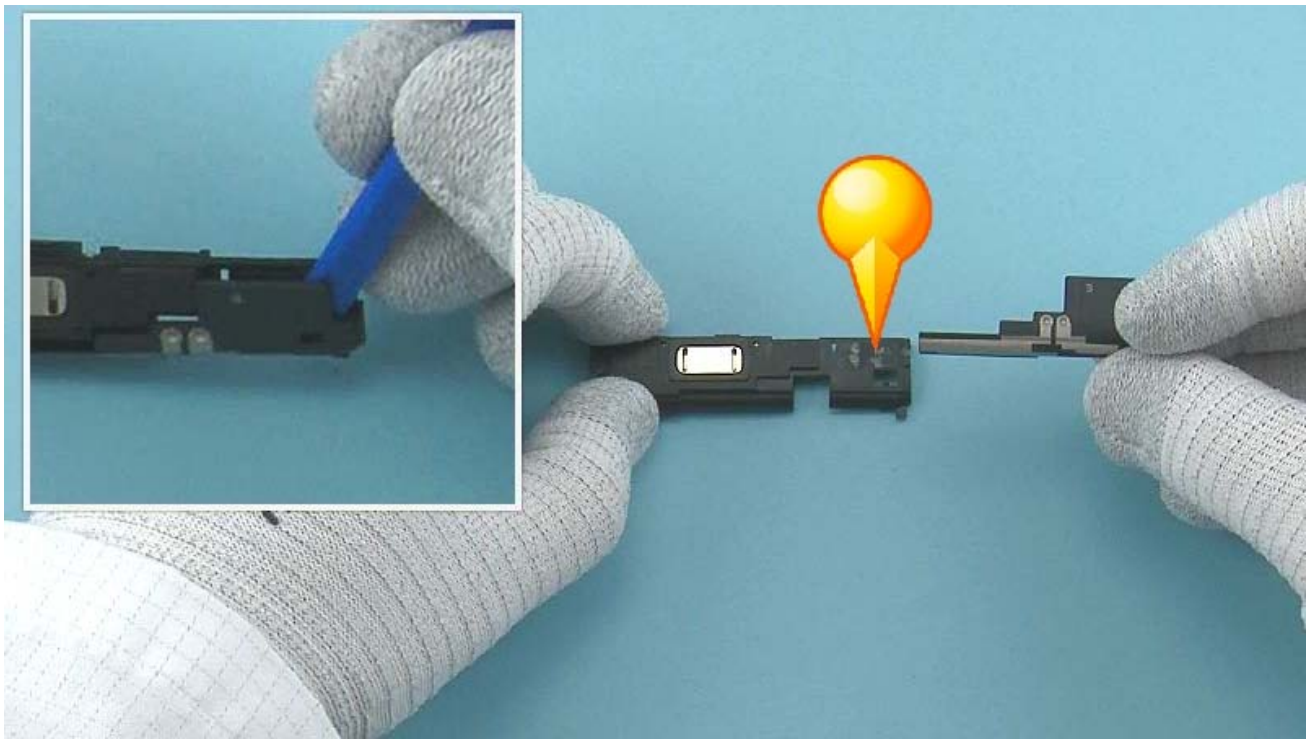
36) Release the SIDE KEY ASSEMBLY with the SS-93 from both ends. Be careful not to damage it.

37) Remove the SIDE KEY ASSEMBLY.

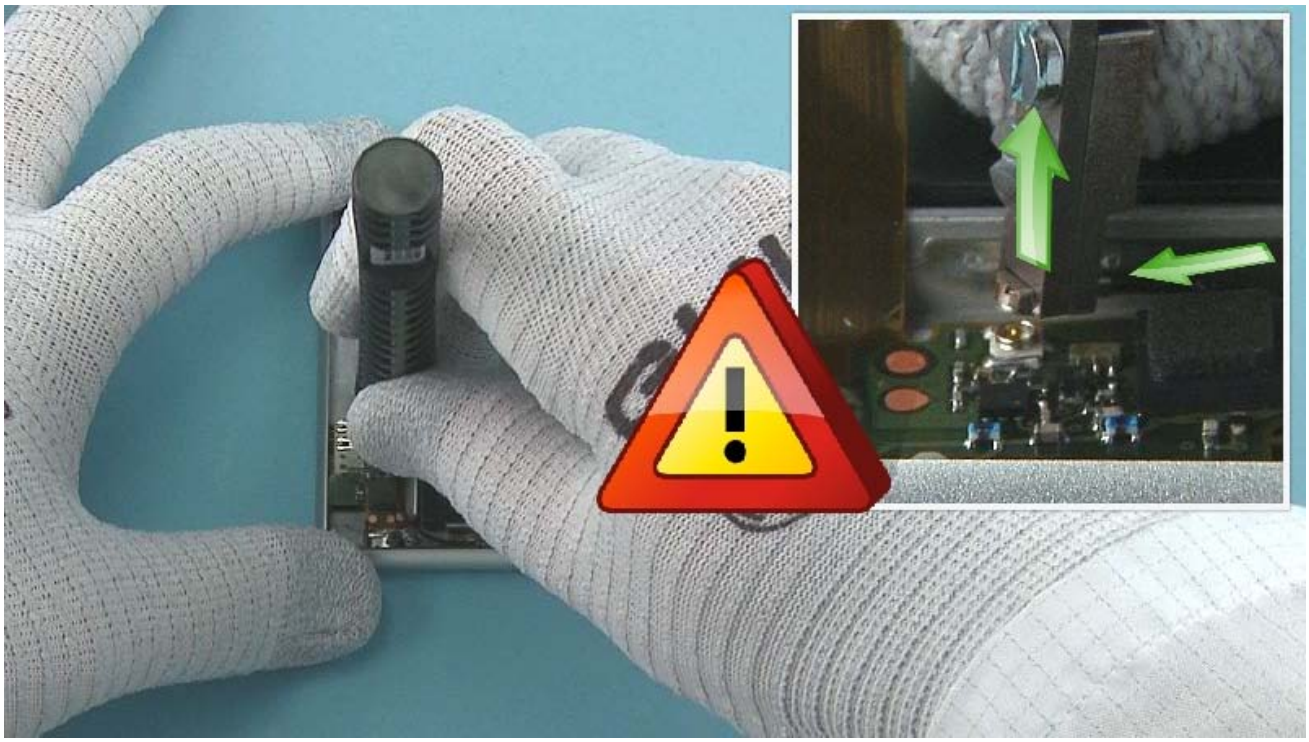


38) Release the SPEAKER BOX from the shown place with the SS-93.

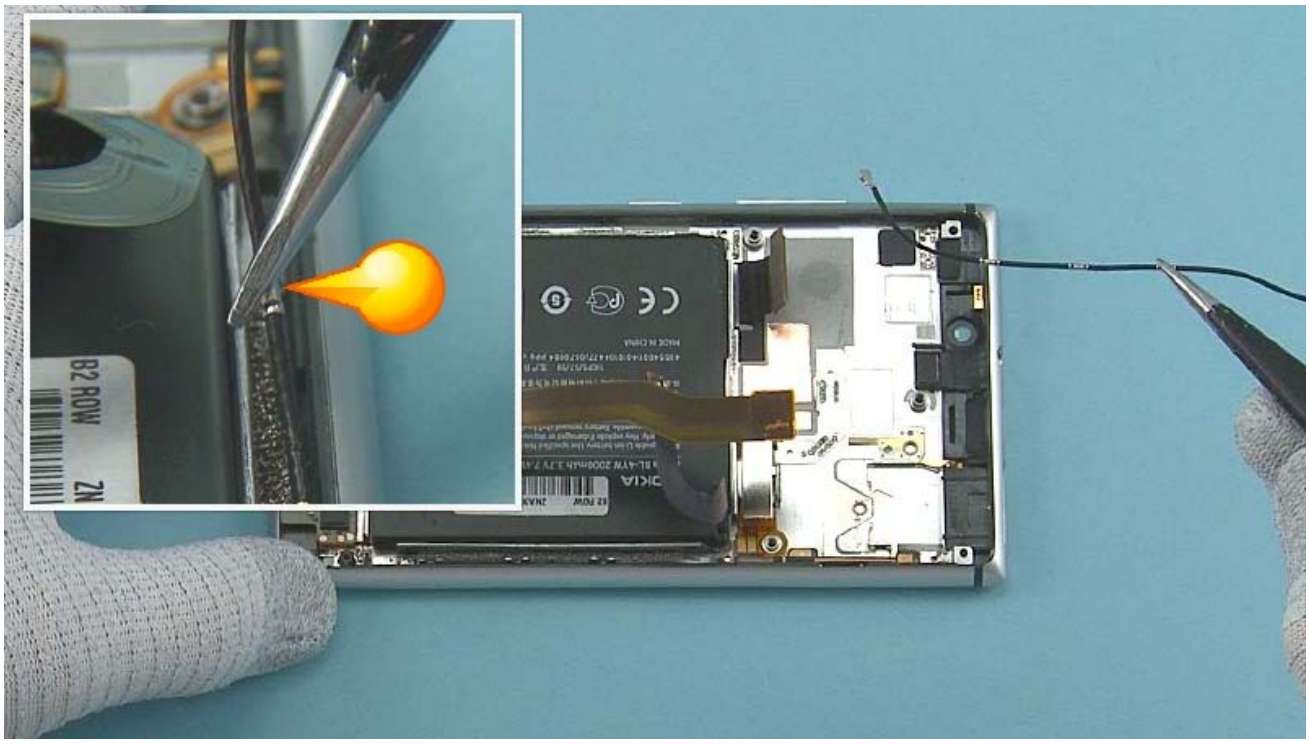
39) Remove the SPEAKER BOX.



40) Remove the MAIN ANTENNA from the SPEAKER BOX with the SS-93 only if either one is damaged. Remove any adhesive remains from the MAIN ANTENNA and the SPEAKER BOX.



41) Carefully disconnect the other end of the ANTENNA COAX CABLE.



42) Remove the ANTENNA COAX CABLE with tweezers. Make sure to grab the ANTENNA COAX CABLE only from the metal shields and not from the cable itself.

43) Release the BOTTOM FLEX with the SS-93. Be careful no to damage it.

44) Remove the BOTTOM FLEX.

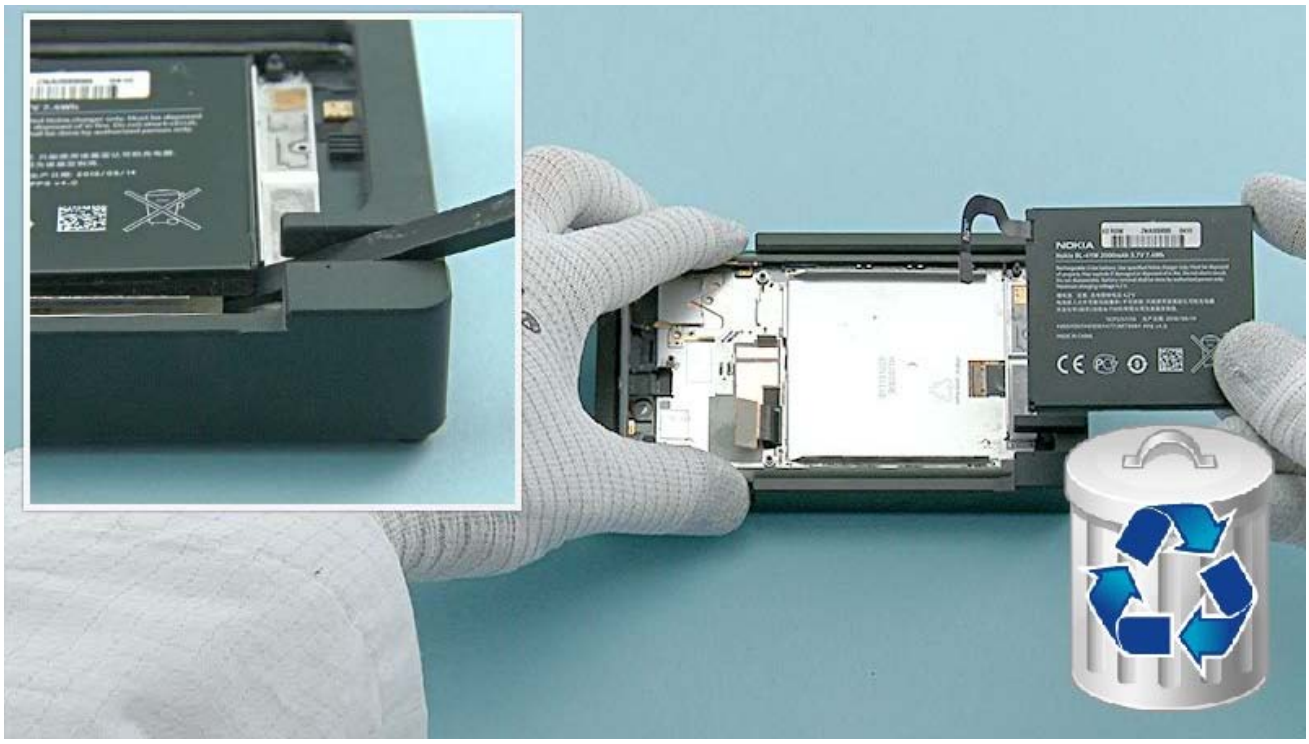
45) Release the VIBRA HOLDER by inserting the SS-93 between the HOLDER and the VIBRA.

46) Remove the VIBRA HOLDER.

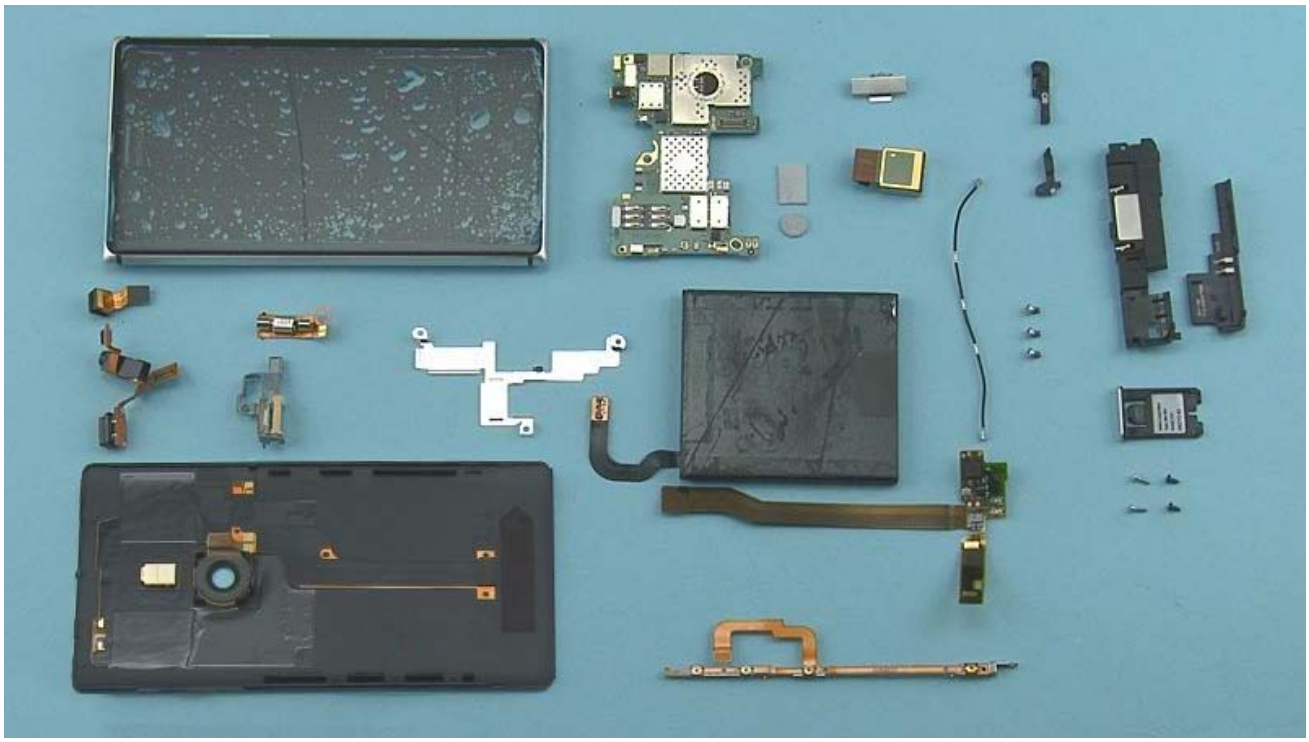
47) Carefully release the VIBRA with the SS-93.

48) Remove the VIBRA.

49) Insert the DISPLAY ASSEMBLY to the SS-318 Protective cover bottom end first.



50) Push the SS-317 Battery removal tool in between the BATTERY and the METAL DECO. Slowly push the SS-317 until the BATTERY is released. Lift up and remove the BATTERY. Do not use it again. Discard it.



51) The Nokia Lumia 925 disassembly procedure is complete.

-END OF DISASSEMBLY-

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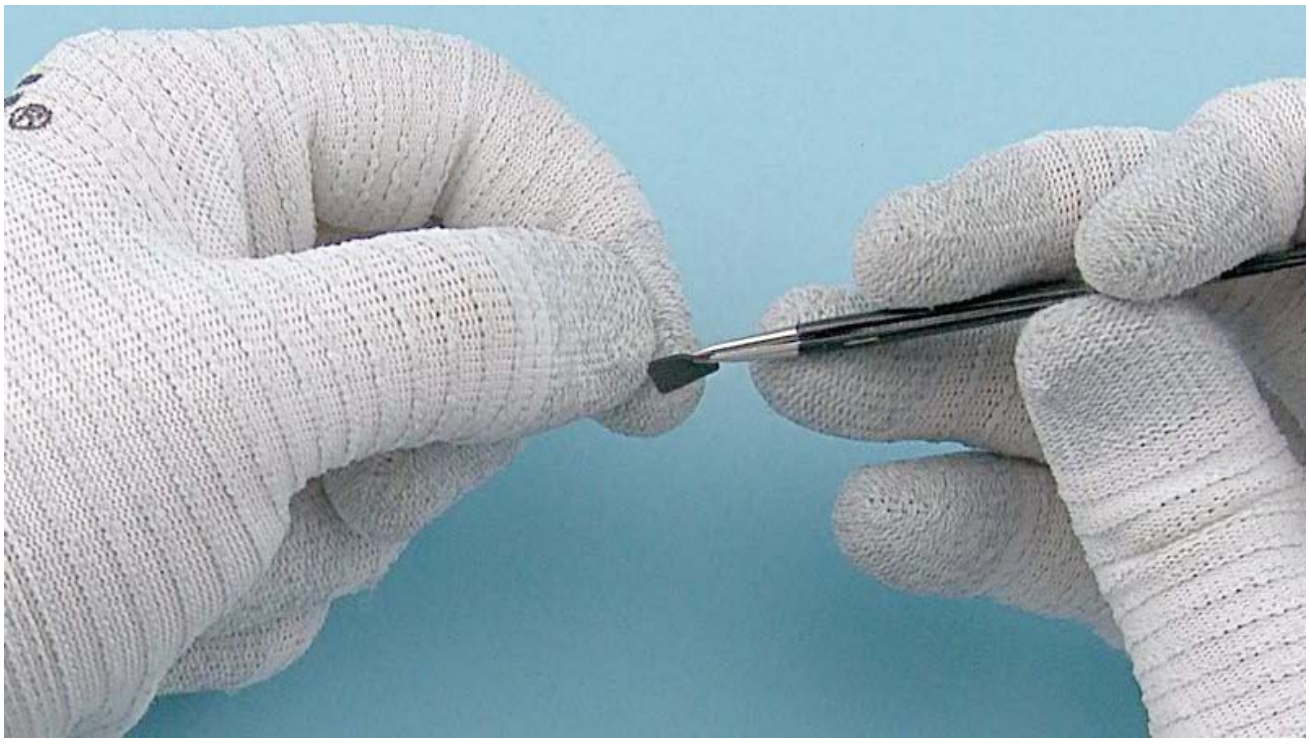
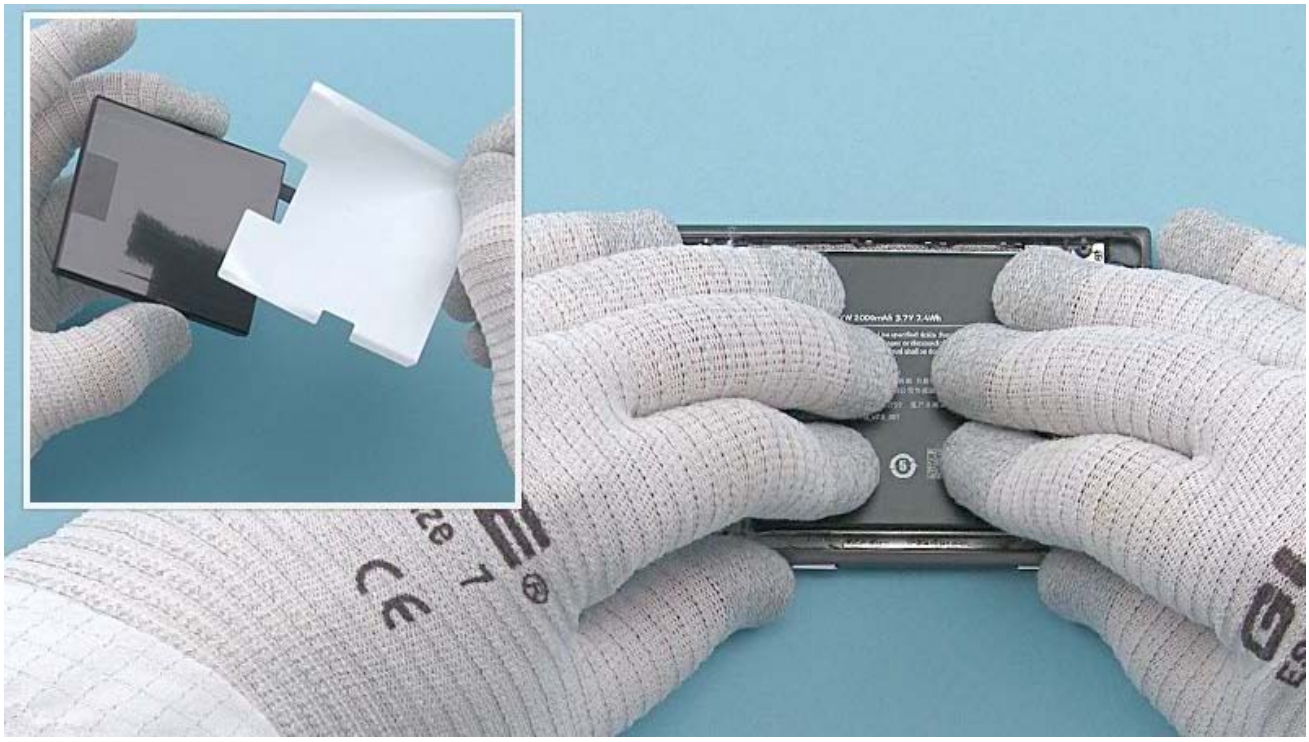
1) For assembling you need the Nokia Standard toolkit version 2. You will also need the SS-231 RF connector disassembly/assembly tool.

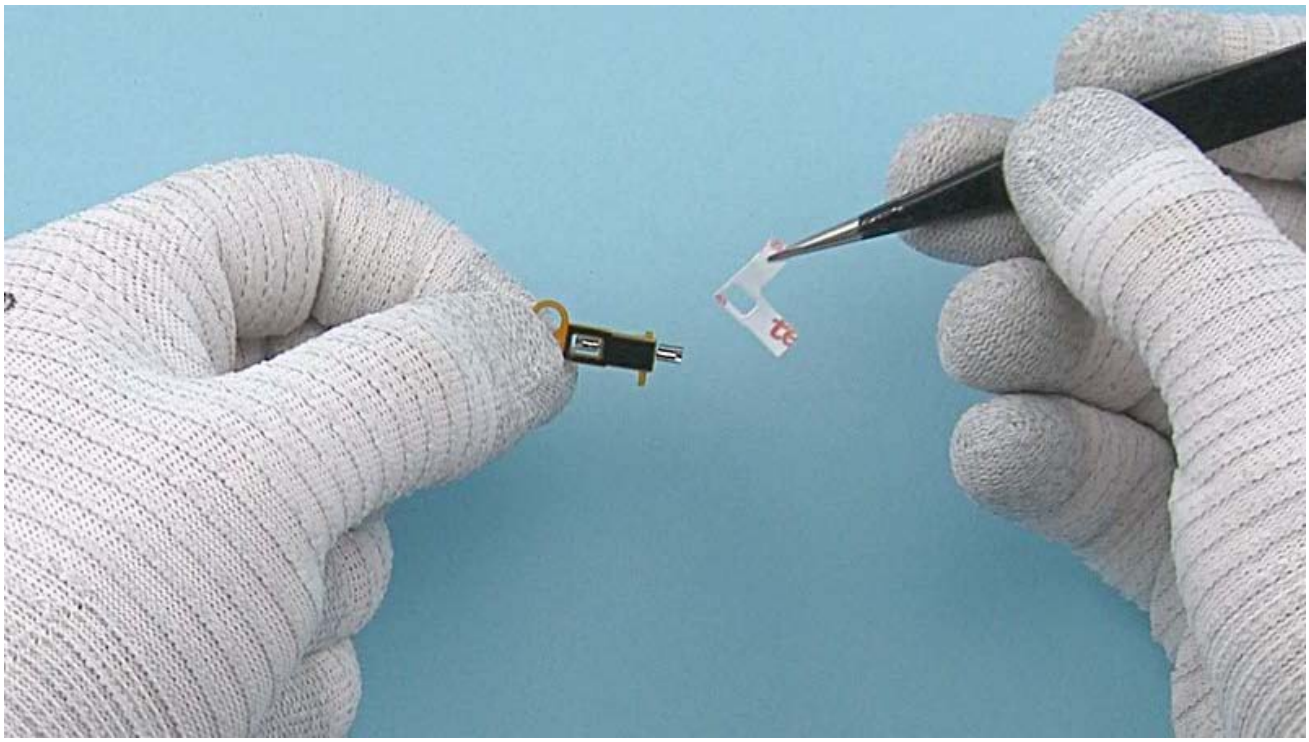


2) Remove the BATTERY CONNECTOR SUPPORT protective film.

3) Attach the BATTERY CONNECTOR SUPPORT to the battery connector. Ba careful not to damage the battery connector.

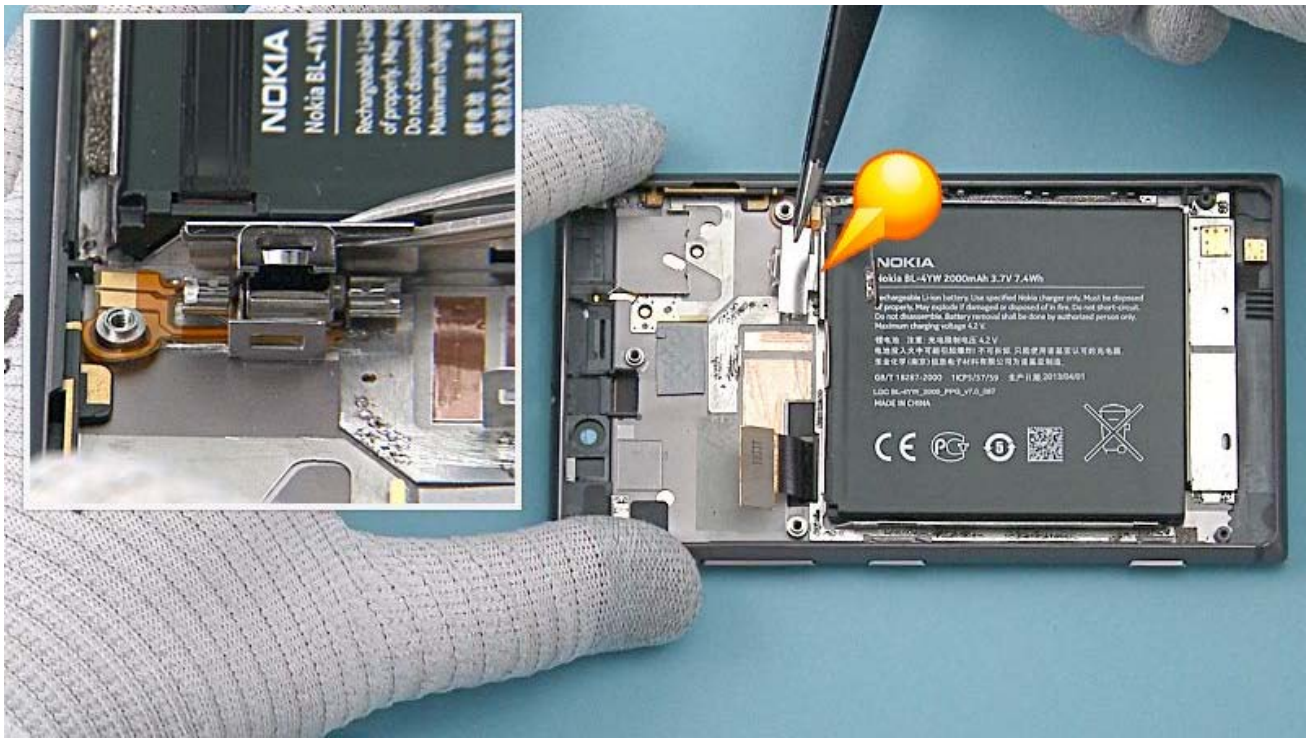


4) Remove the BATTERY protective film. Place the BATTERY to its cavity and press it to activate the adhesive.



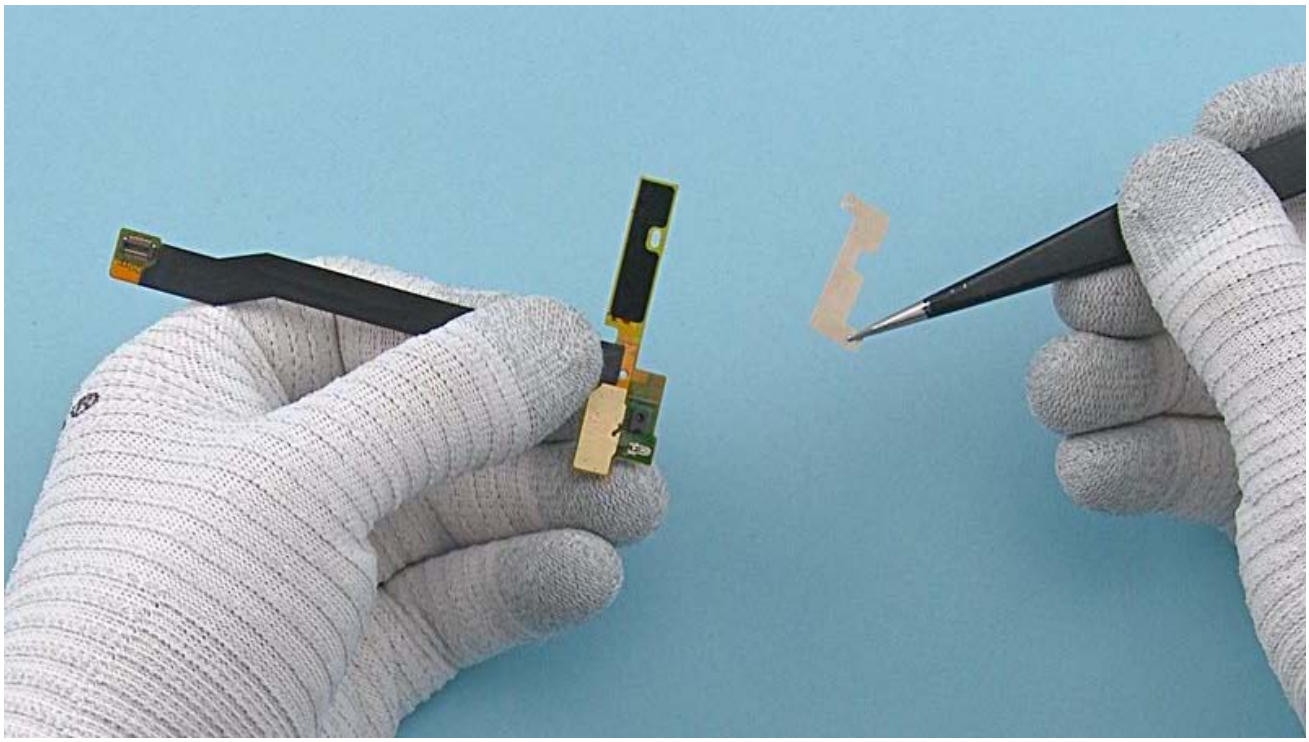
5) Remove the VIBRA protective film.

6) Align the VIBRA to its place by using the shown screw hole. Press the VIBRA gently to activate the adhesive. Be careful not to damage the VIBRA.

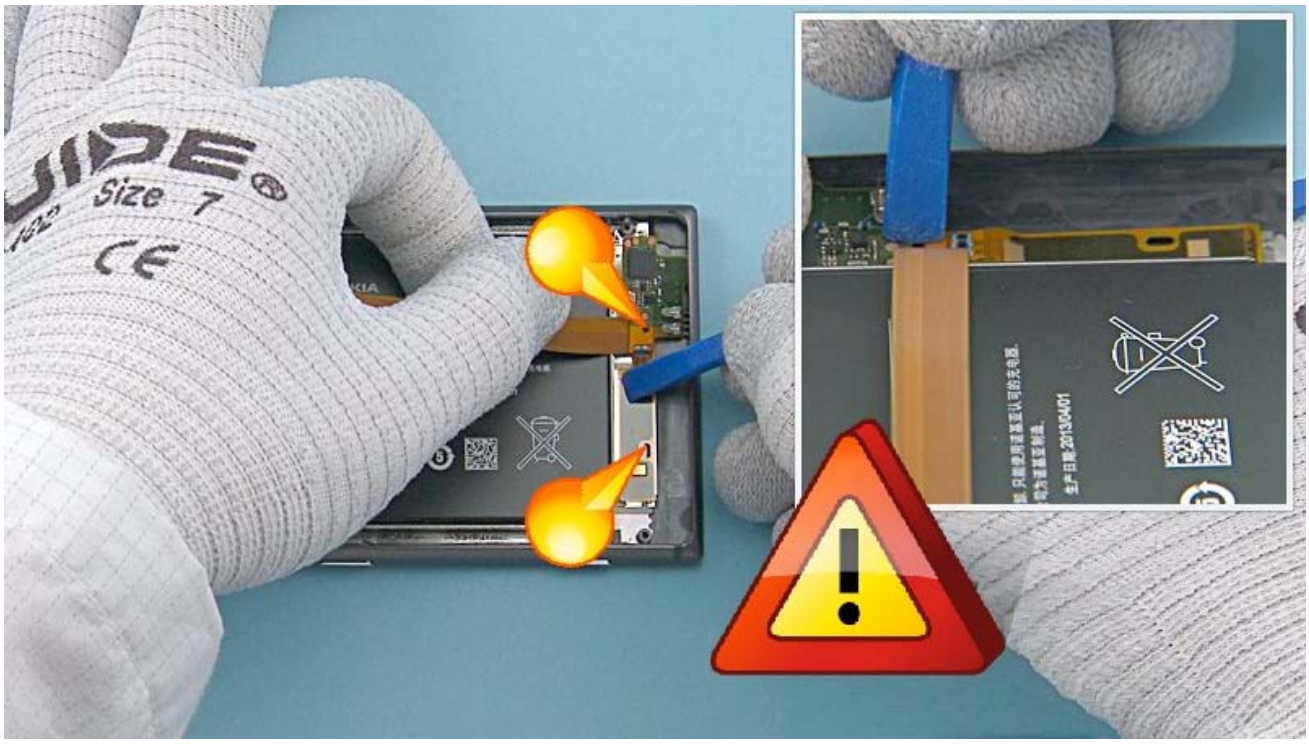


7) Place the VIBRA HOLDER shown side first.

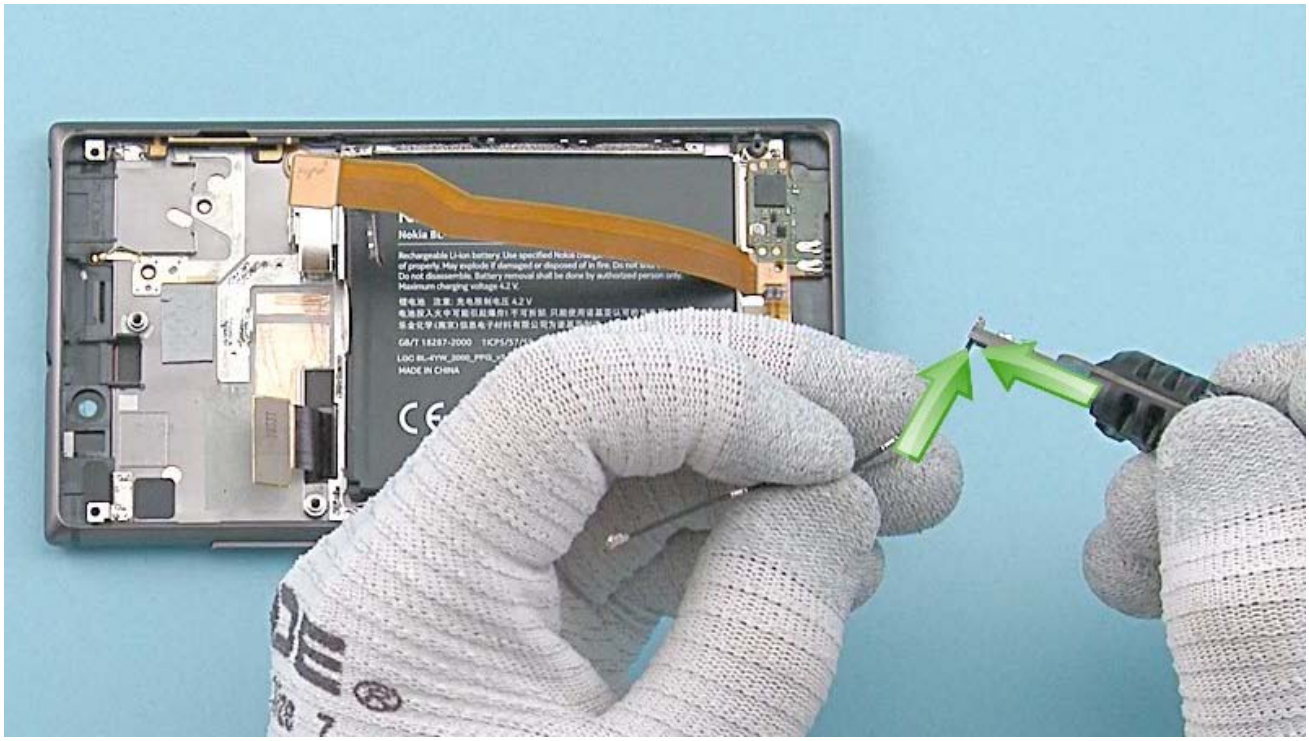
8) Lock the other side of the VIBRA HOLDER with the SS-93.



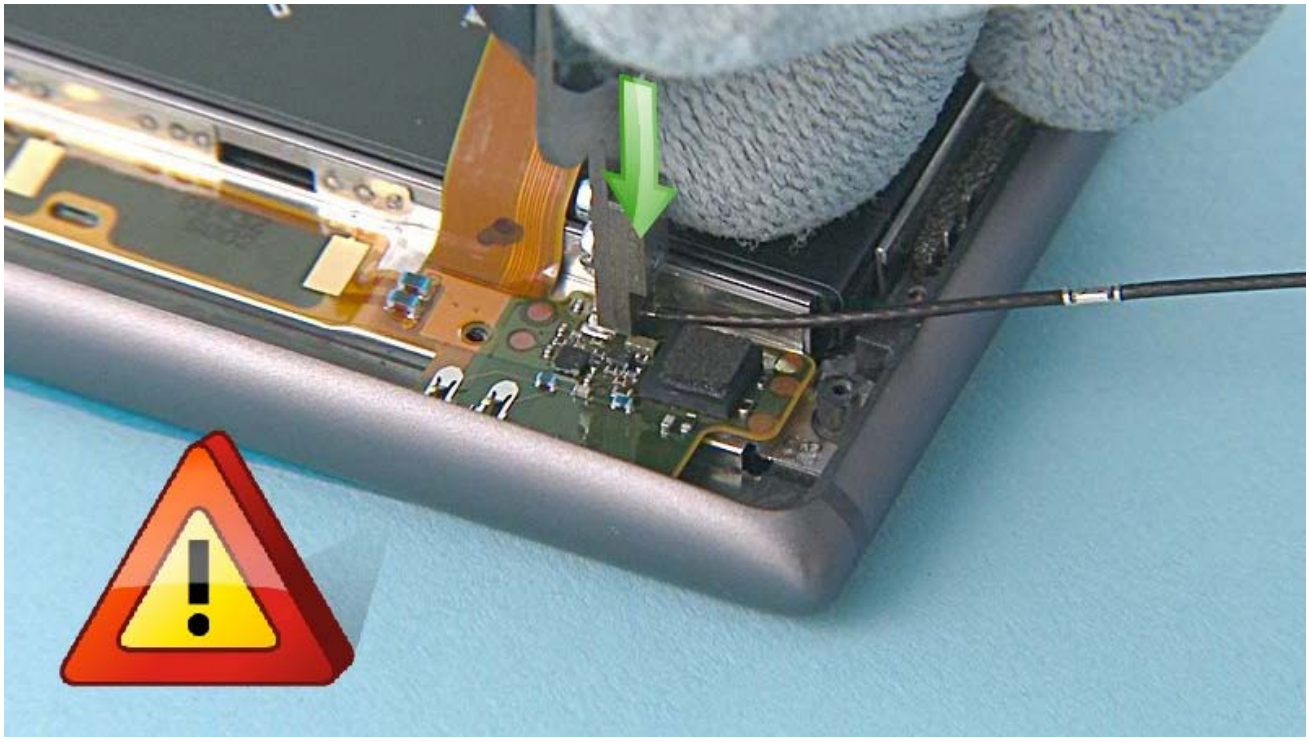
9) Remove the BOTTOM FLEX protective film.



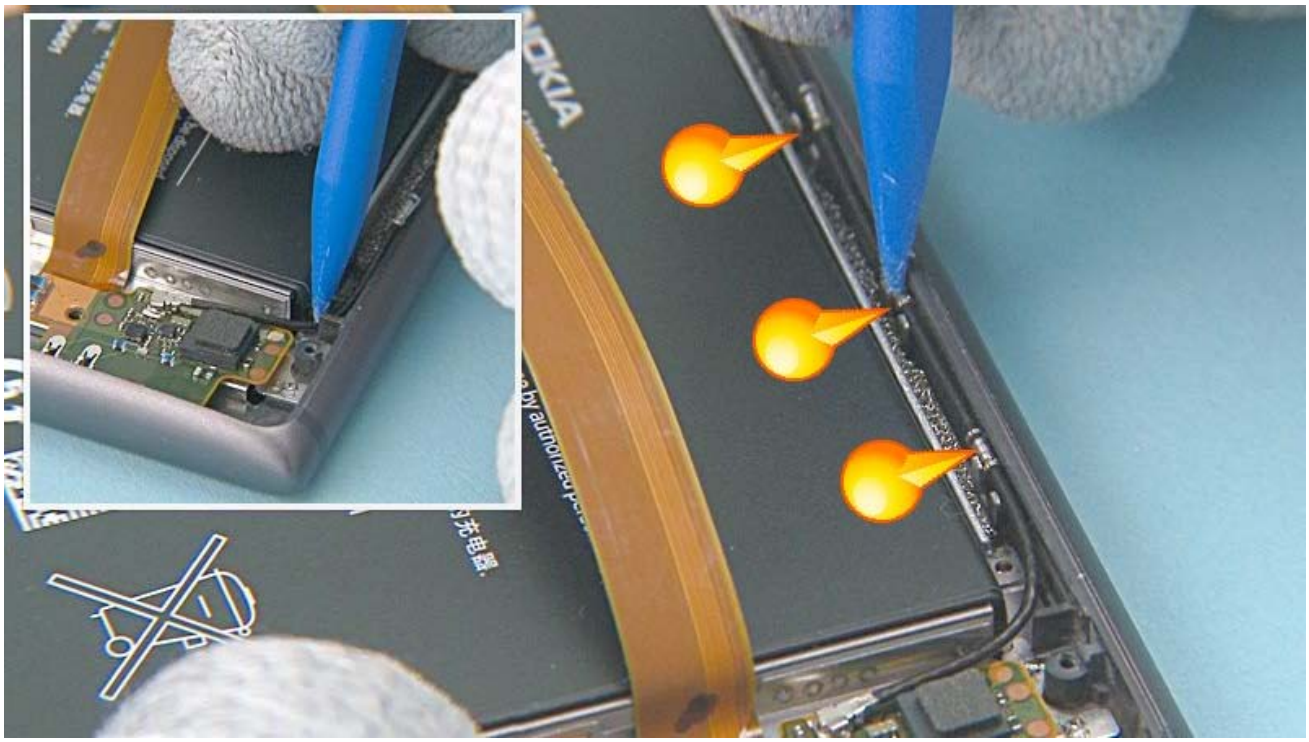
10) Align the BOTTOM FLEX by using the two shown holes. Press the BOTTOM FLEX with the SS-93 to activate the adhesive. Be careful not to damage the small components on the BOTTOM FLEX.



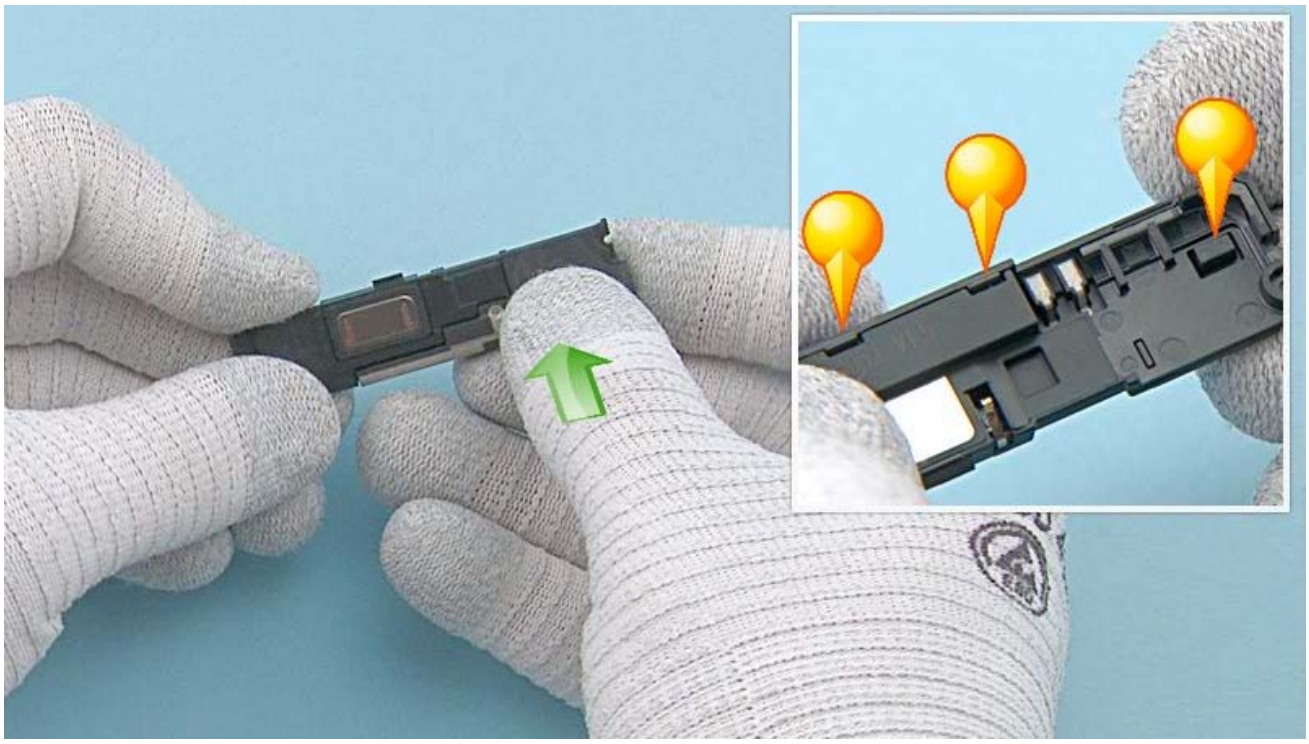
11) Lock the SS-231 tool to the ANTENNA COAX CABLE connector by first placing the tool on the cable and then sliding it towards the connector.



12) Connect the ANTENNA COAX CABLE connector. Be careful not to damage the connector.

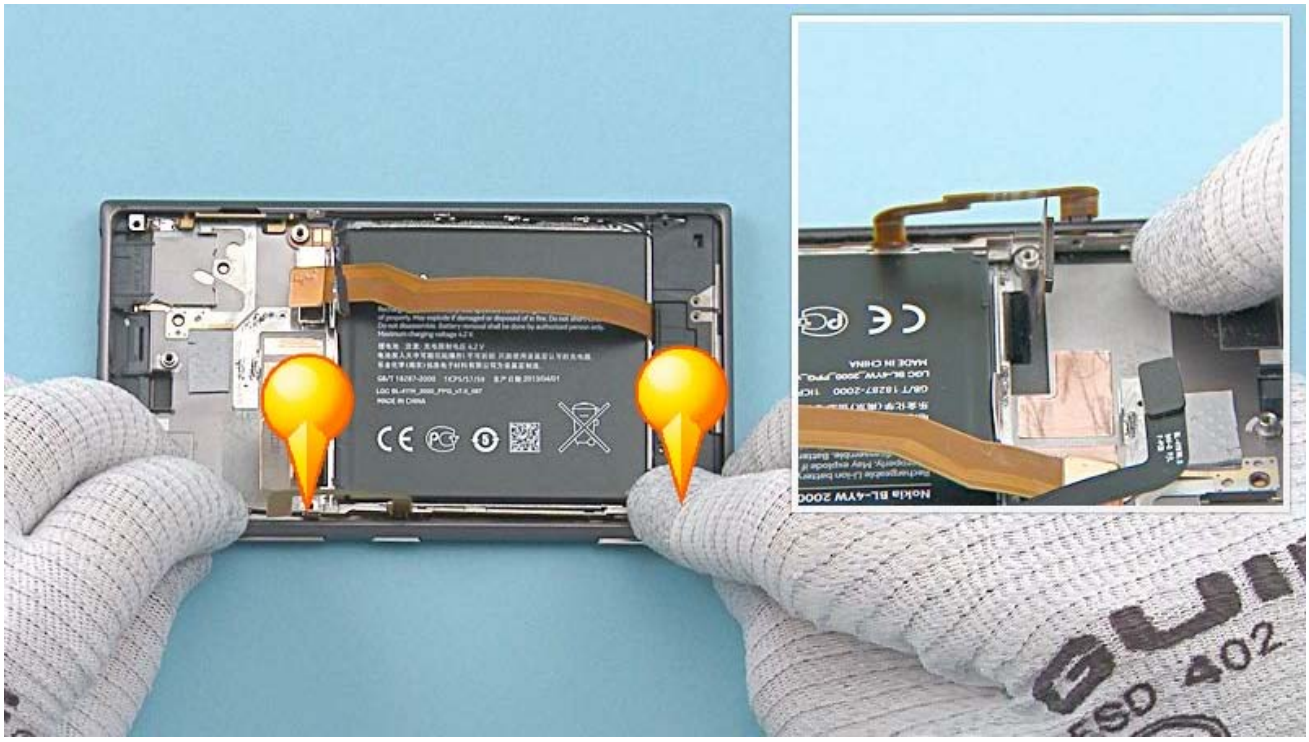


13) Push the ANTENNA COAX CABLE around the shown corner and lock it to the shown three holder clips.

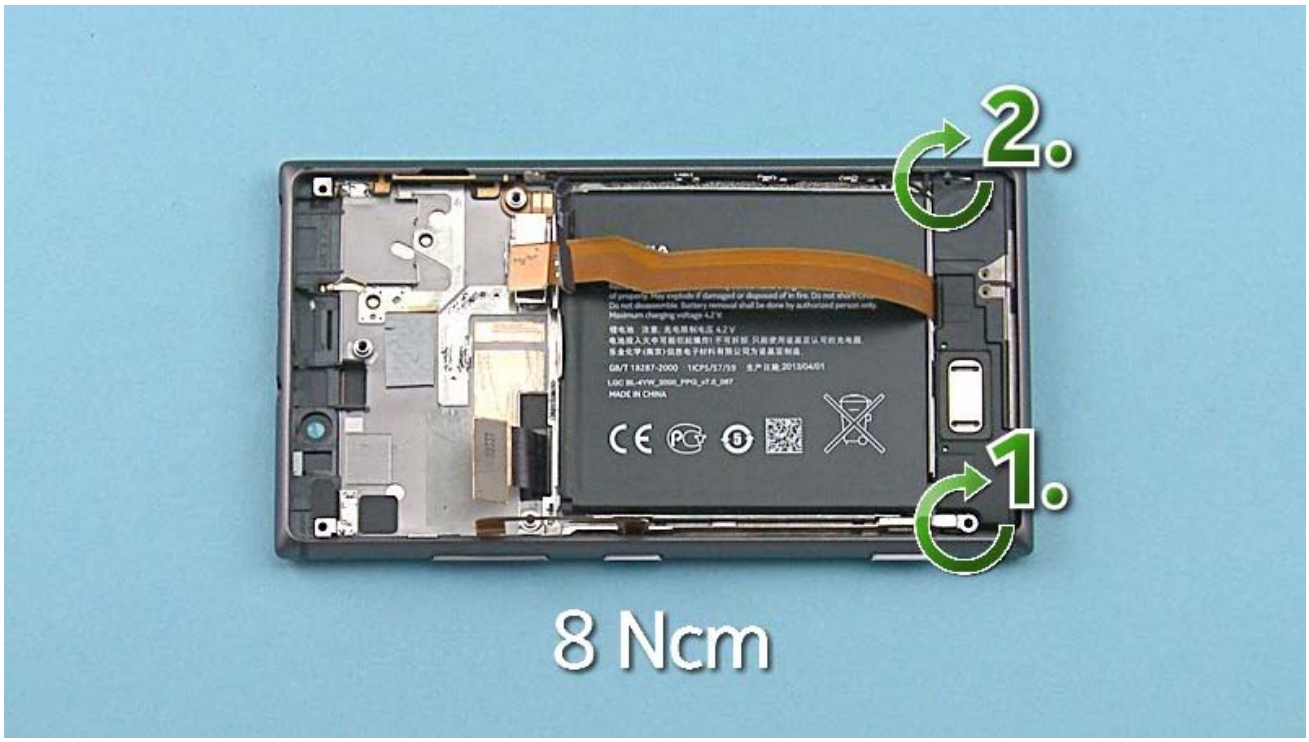


14) Push the MAIN ANTENNA to the SPEAKER BOX. Check that the shown three clips are attached.

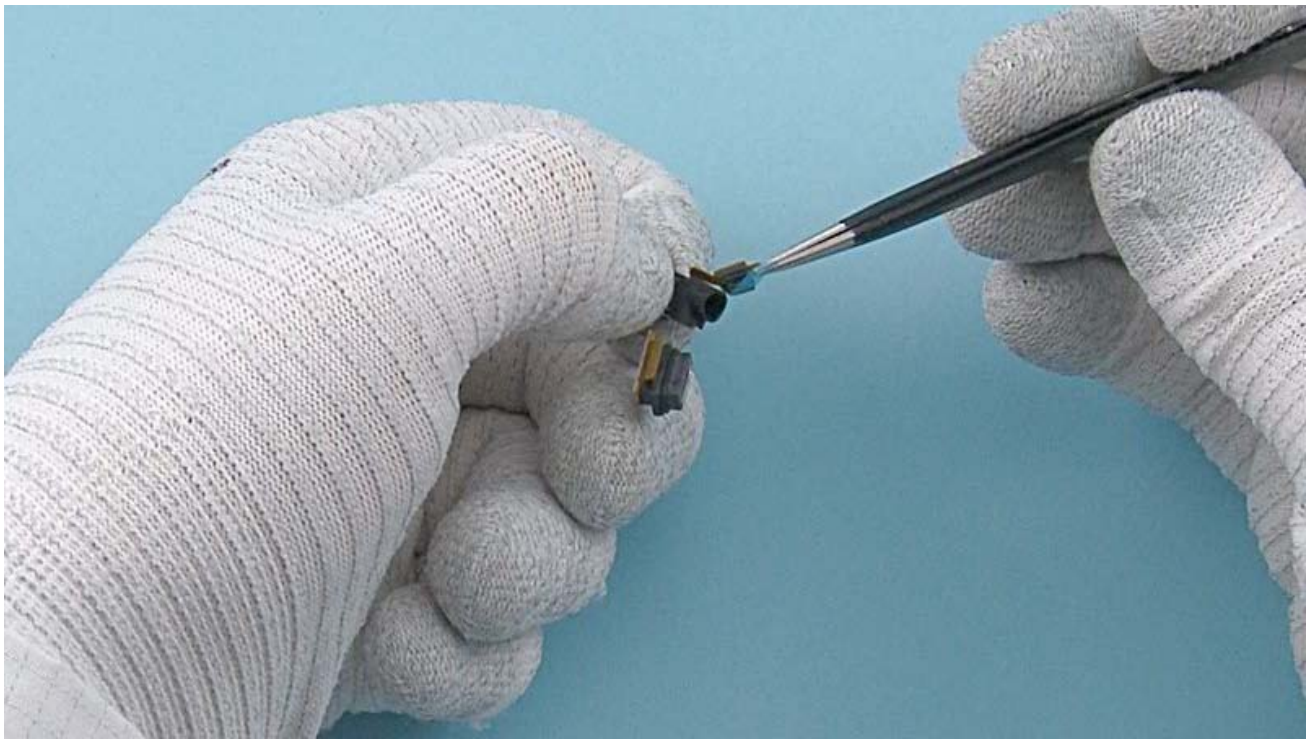
15) Place the SPEAKER BOX with the MAIN ANTENNA to the METAL DECO bottom end first. Then press it to its place.



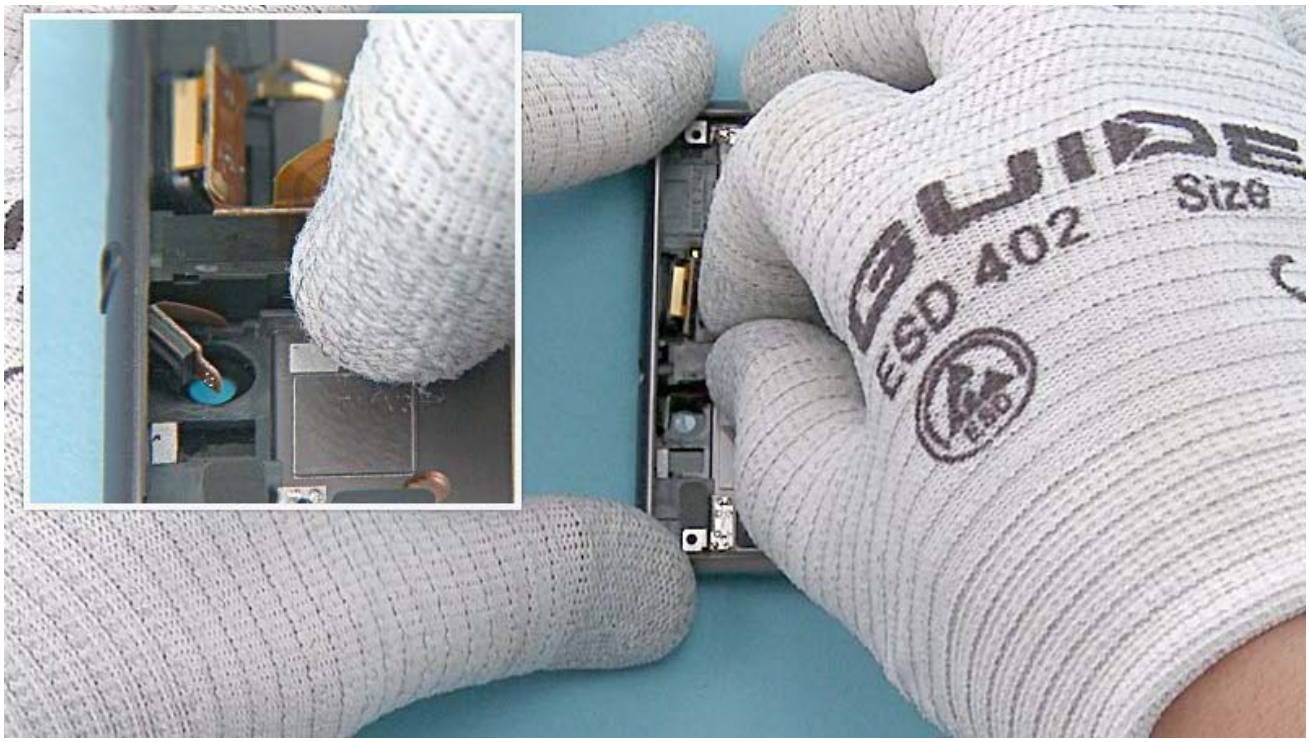
16) Place the SIDE KEY ASSEMBLY.



17) Fasten the two TORX+ size 4 screws in the order shown to the torque of 8 Ncm.

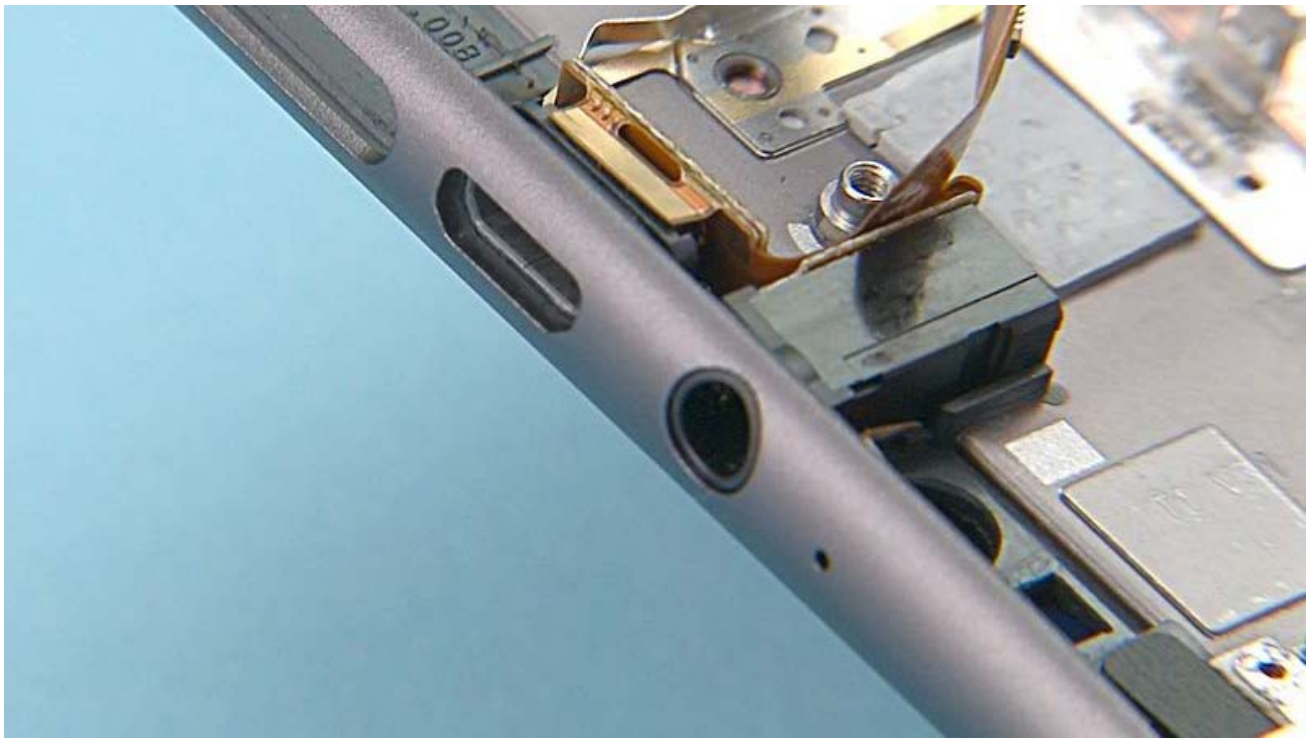


18) Remove the MICROPHONE protective film.

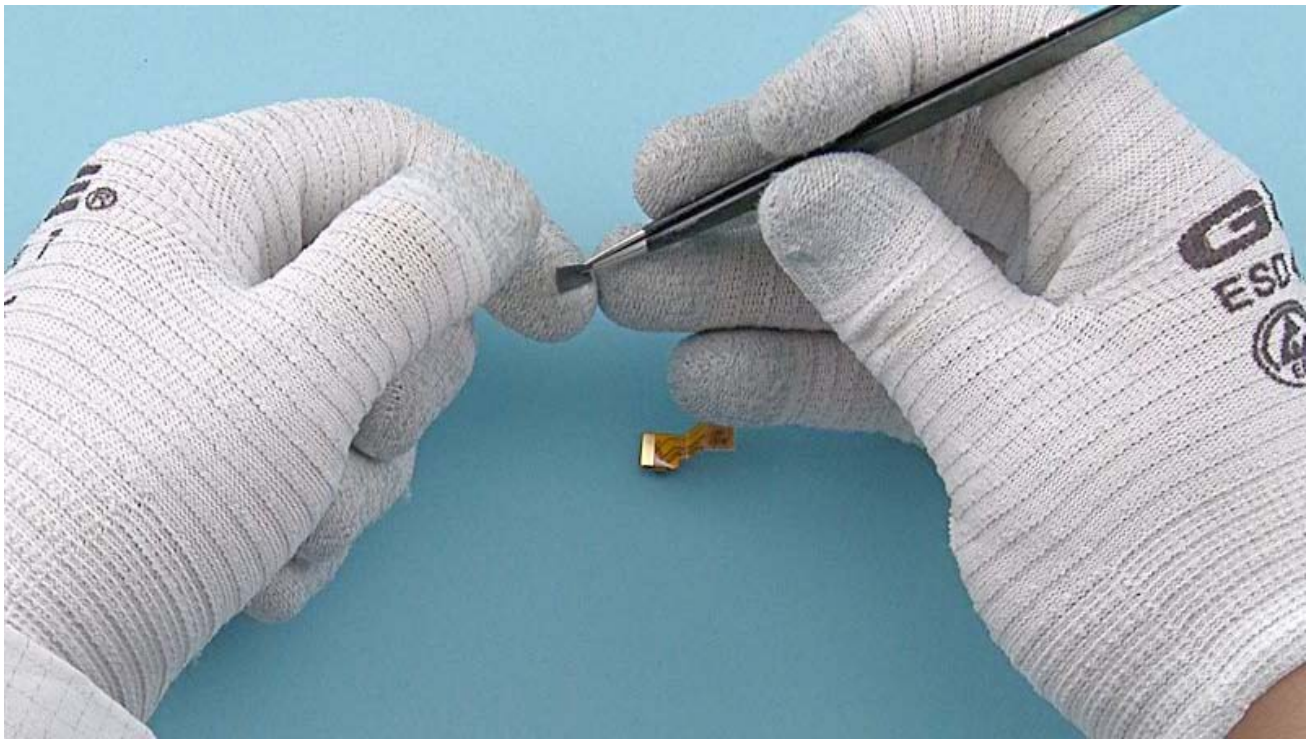


19) Push the AV CONNECTOR to its place first.

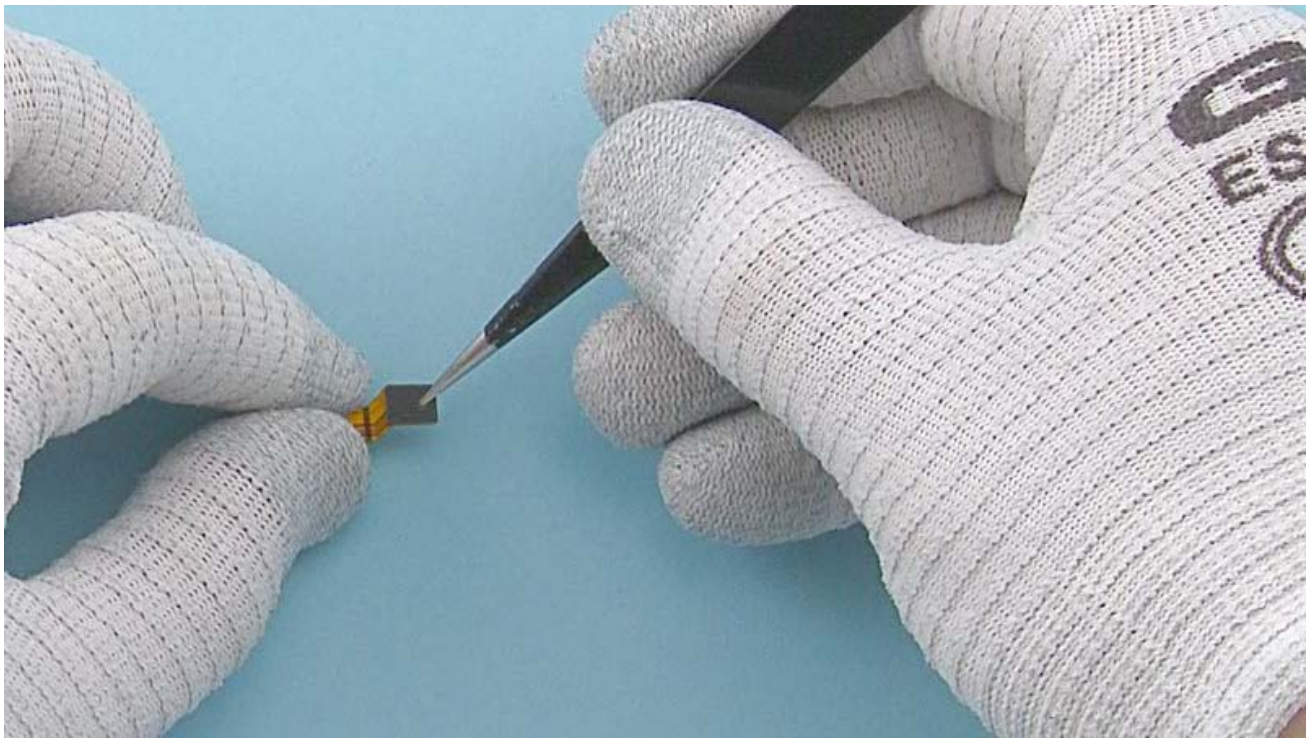
20) Use the SS-93 to push the MICROPHONE and the USB CONNECTOR to their places.



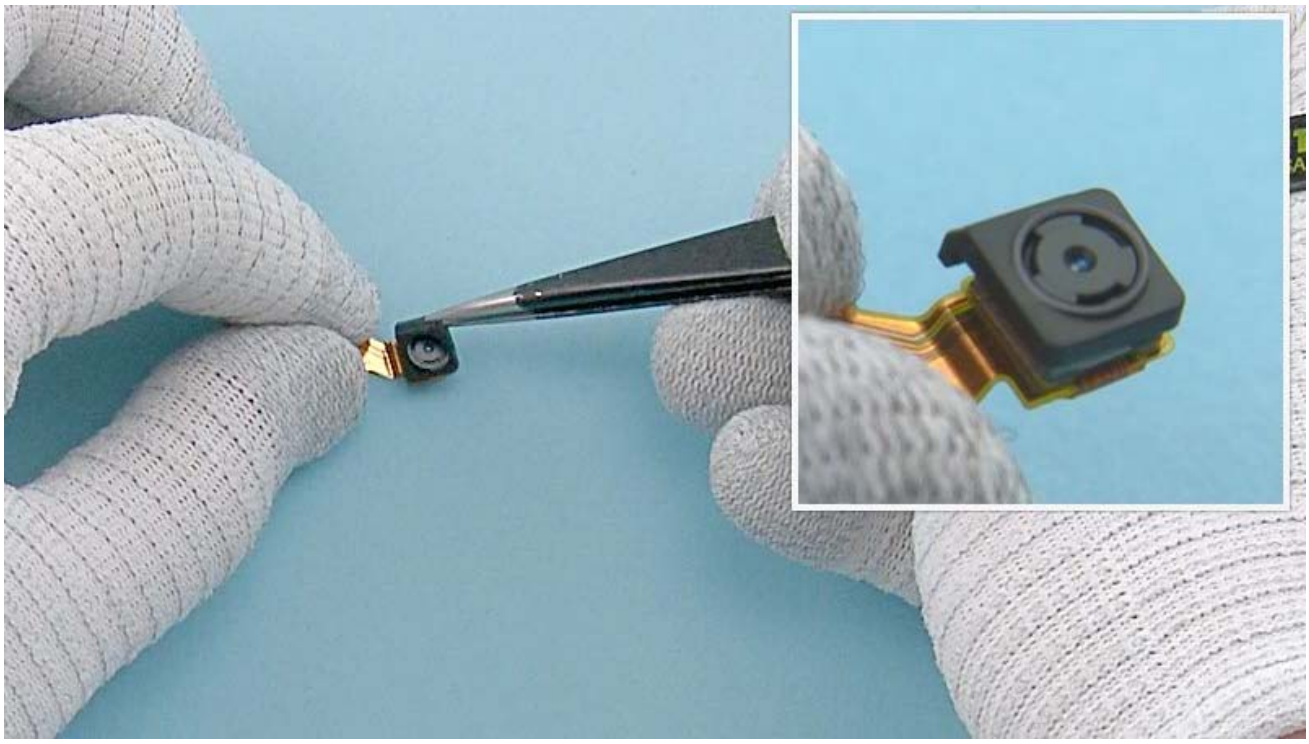
21) Check that the CONNECTOR ASSEMBLY is correctly aligned.



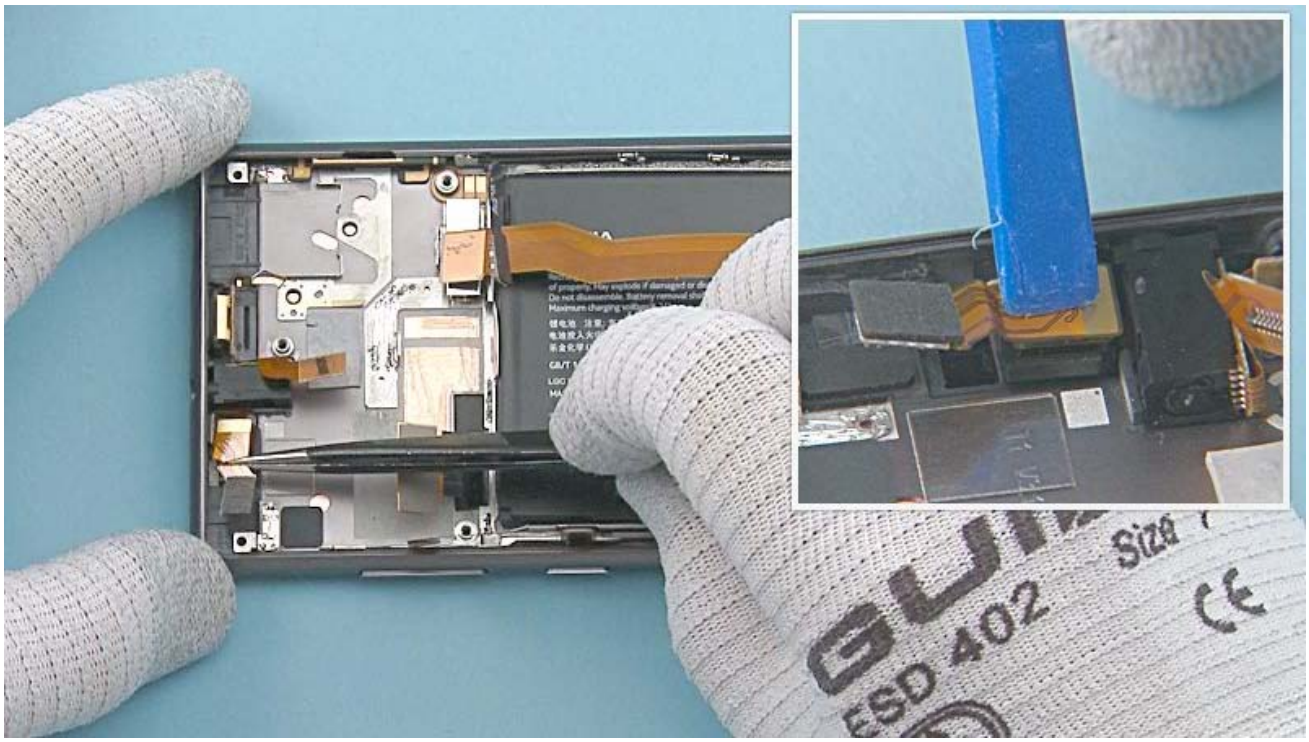
22) Remove the FRONT CAMERA support protective film.



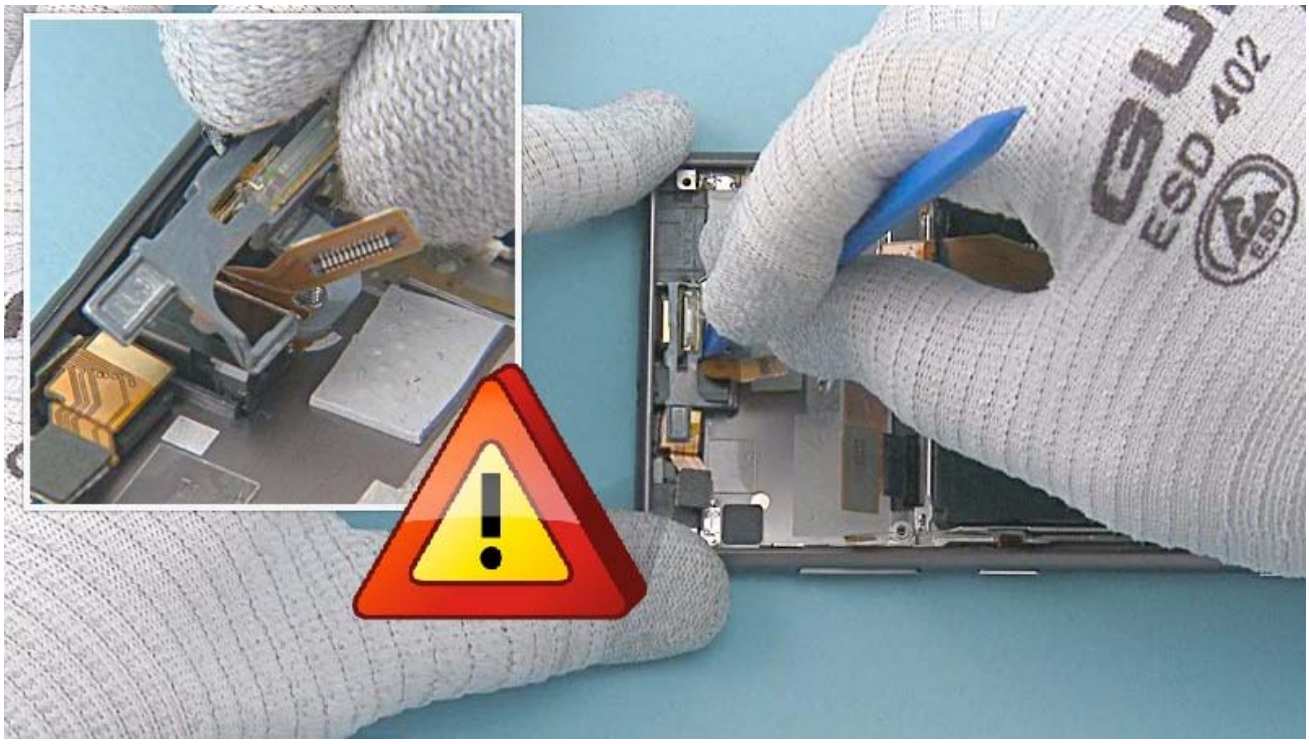
23) Place the FRONT CAMERA support.



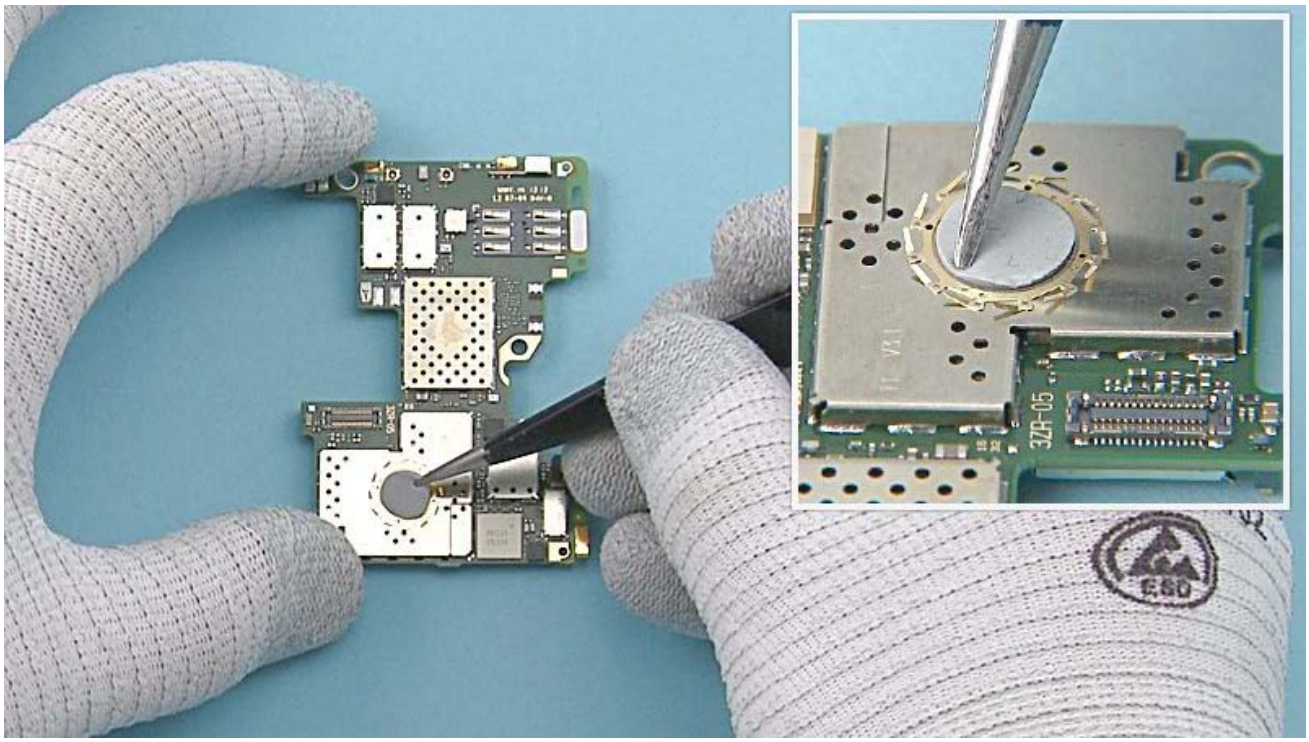
24) Place the CAMERA BOOT to the FRONT CAMERA. Note the alignment of the CAMERA BOOT.



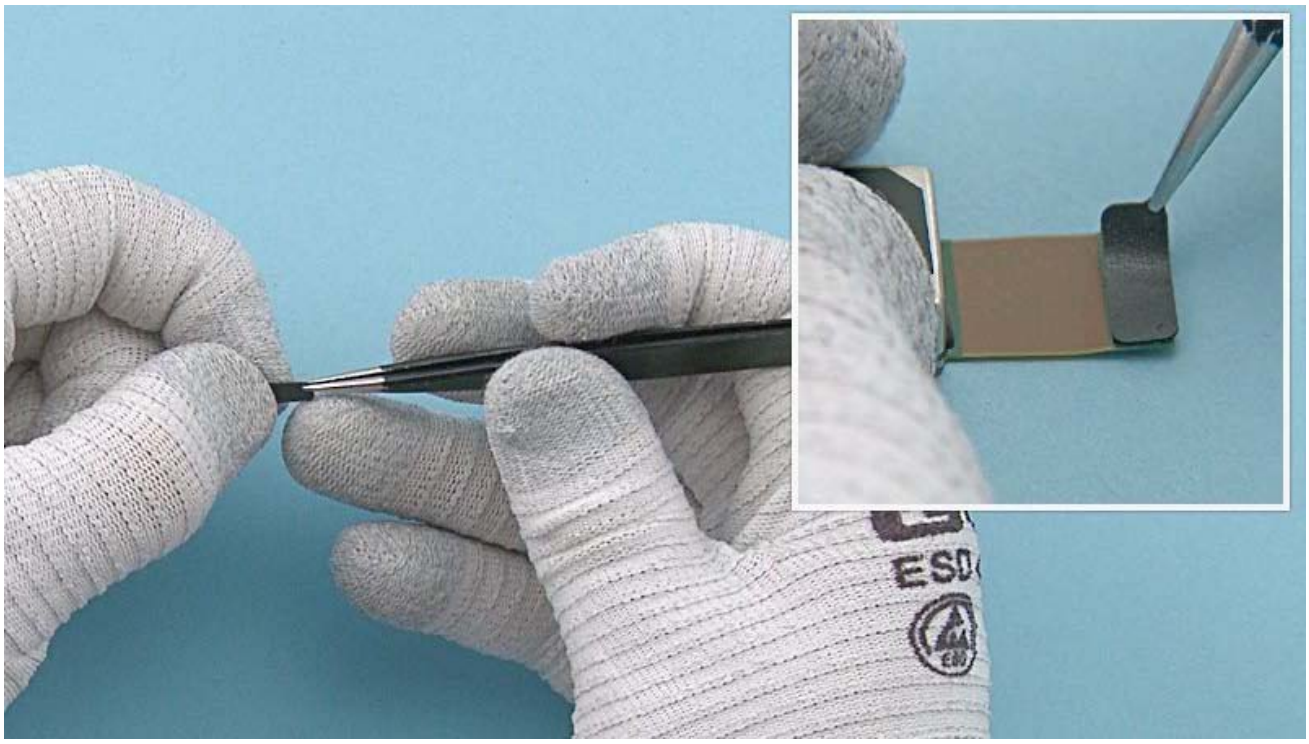
25) Place the FRONT CAMERA as shown.



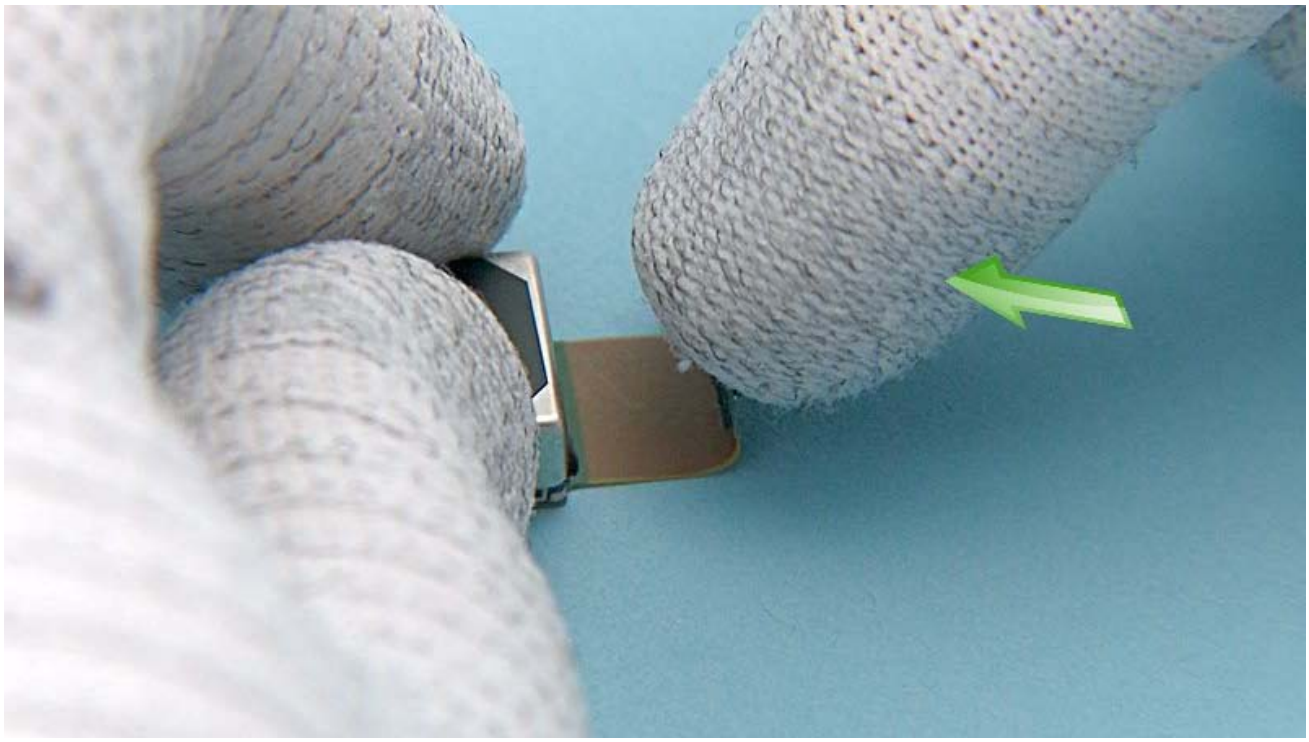
26) Push the CONNECTOR ASSEMBLY connector through the CONNECTOR LATCH. Push the CONNECTOR LATCH to its place with the SS-93. Be careful not to damage the CONNECTOR ASSEMBLY connector.



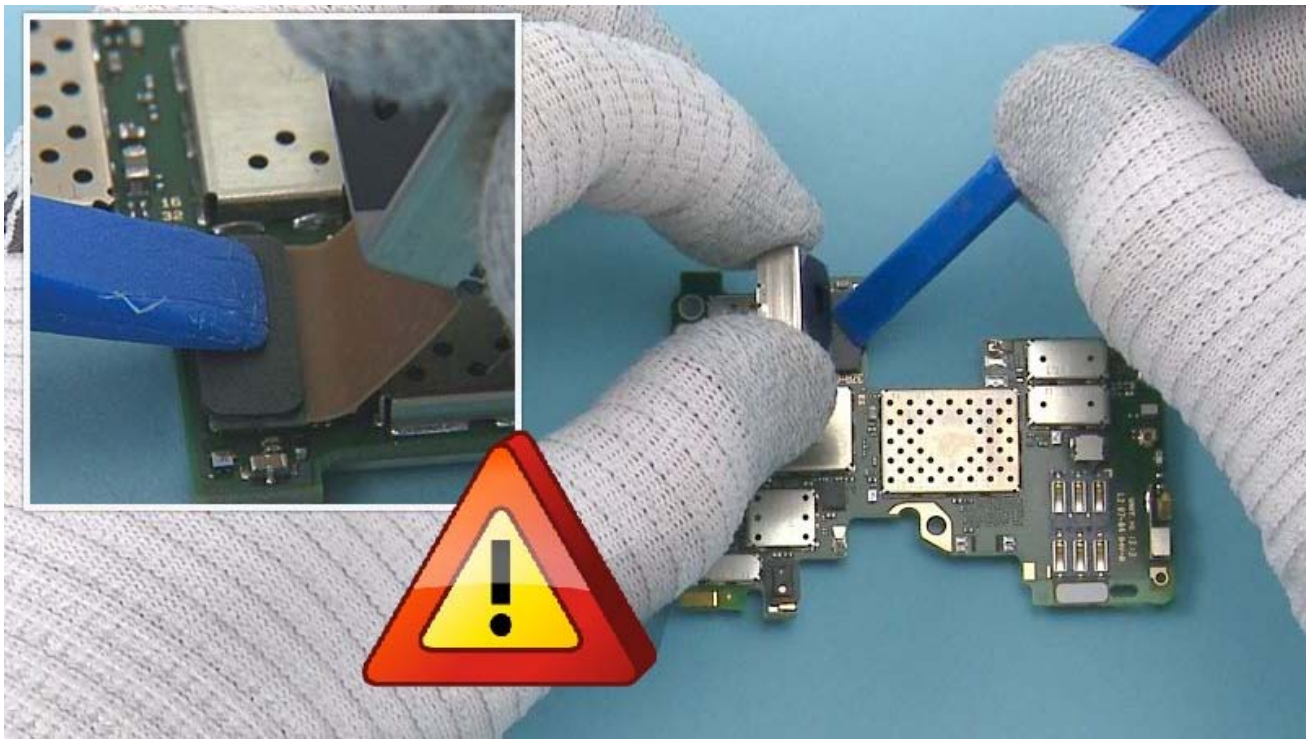
27) Place the THERMAL PAD.



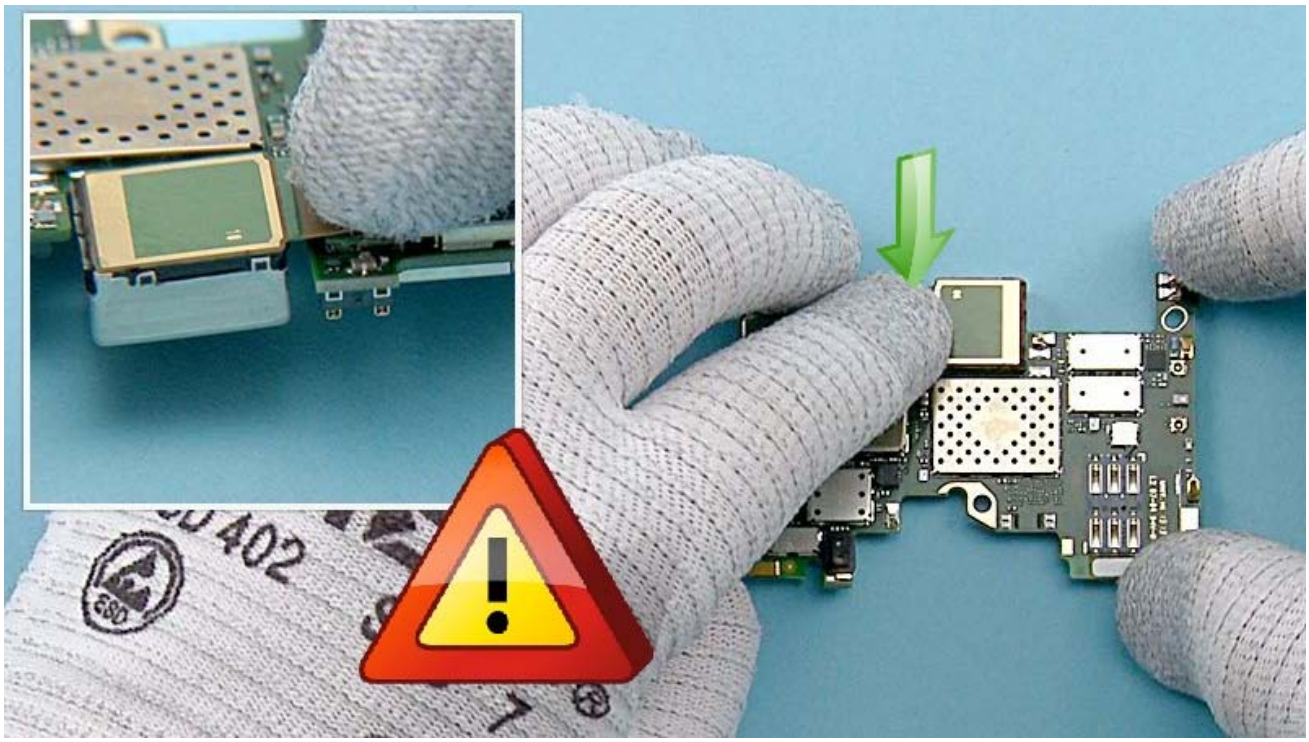
28) Remove the CAMERA support protective film. Place the CAMERA support as shown.



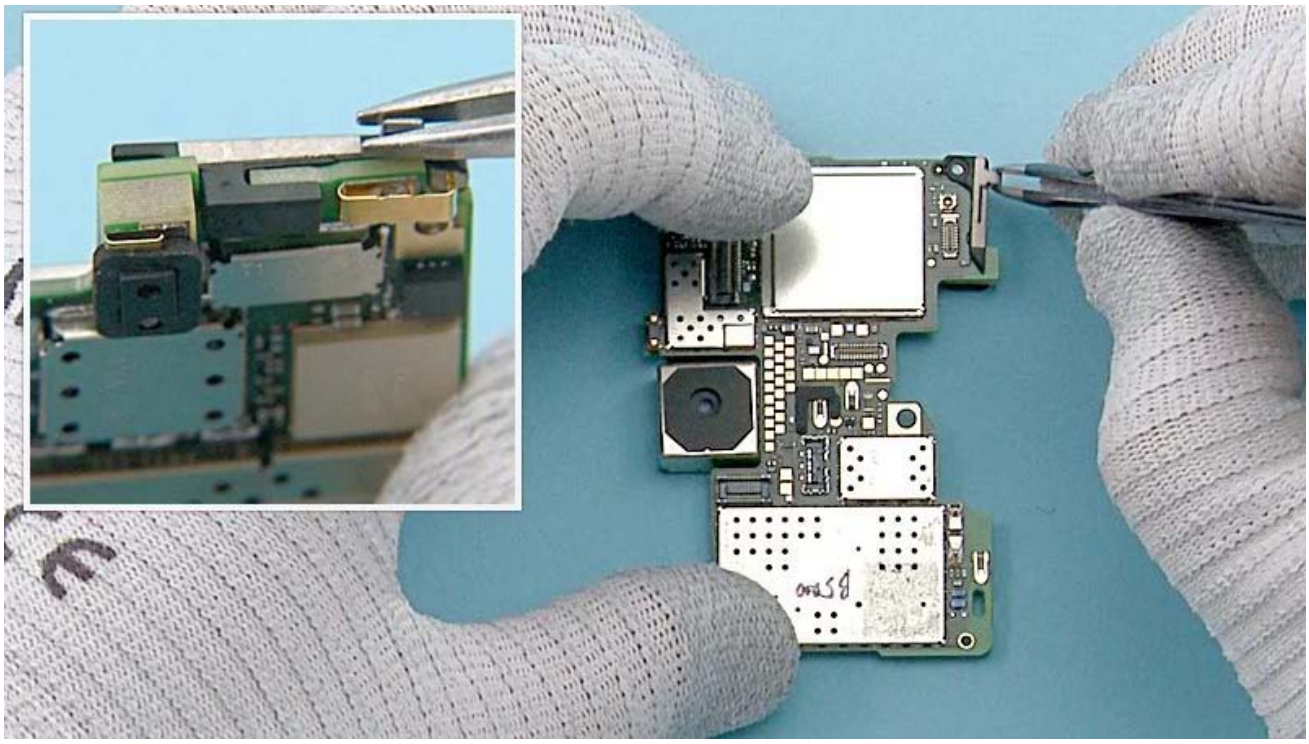
29) Gently bend the CAMERA connector flex.



30) Connect the CAMERA connector. Be careful not to damage the connector.

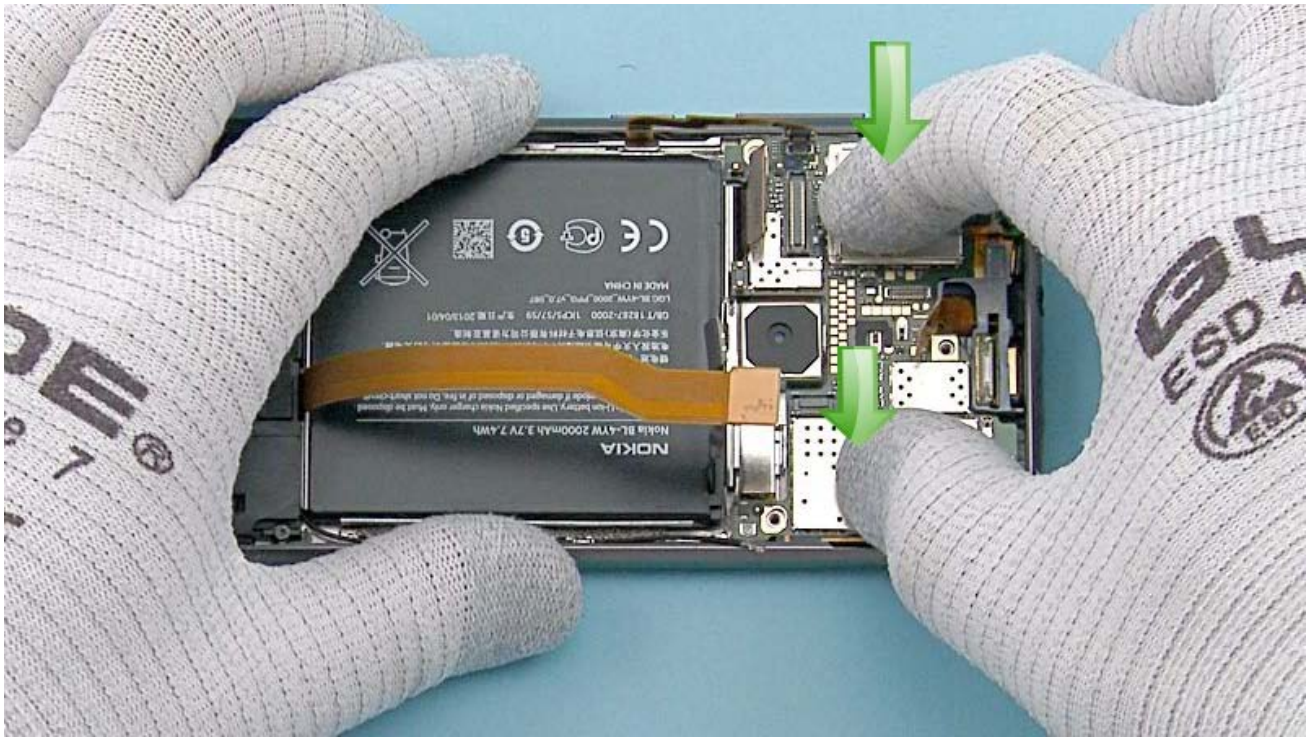


31) Bend the CAMERA connector flex as shown. Be careful not to damage the CAMERA connector flex.

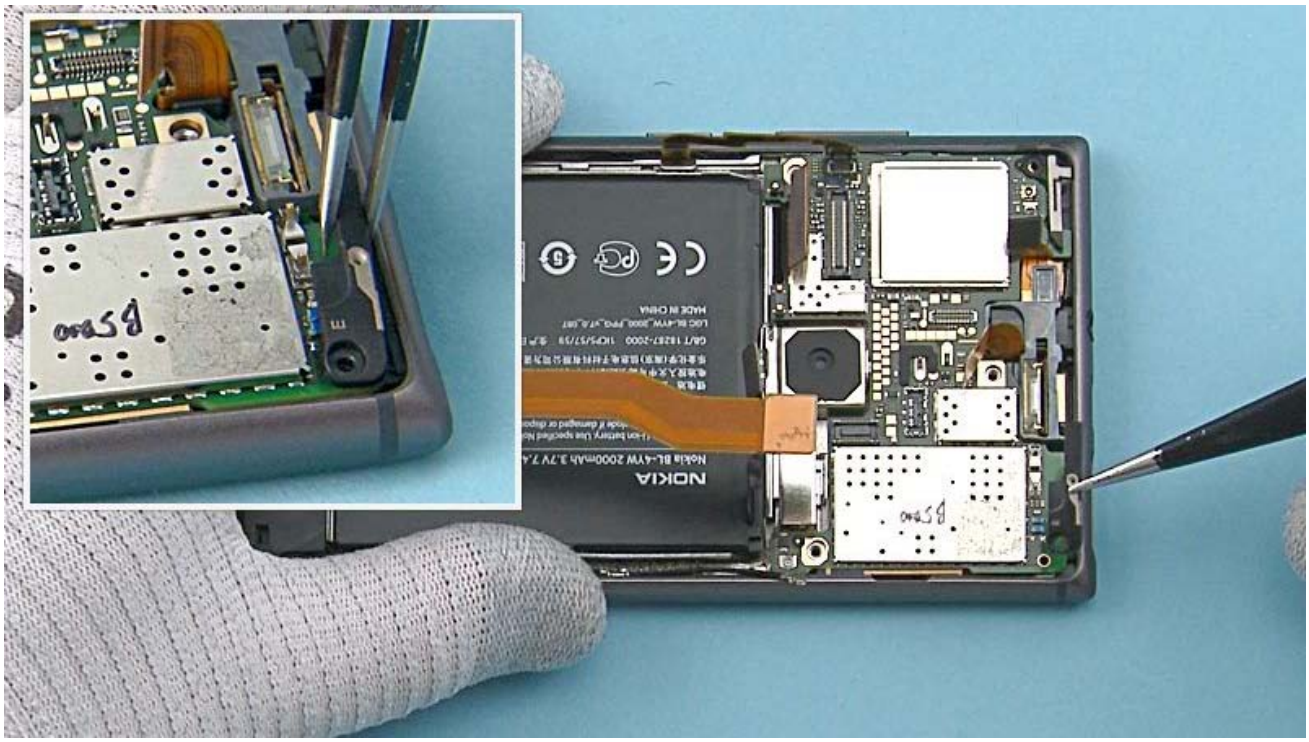


32) Place the WLAN/GPS ANTENNA to the ENGINE BOARD as shown.

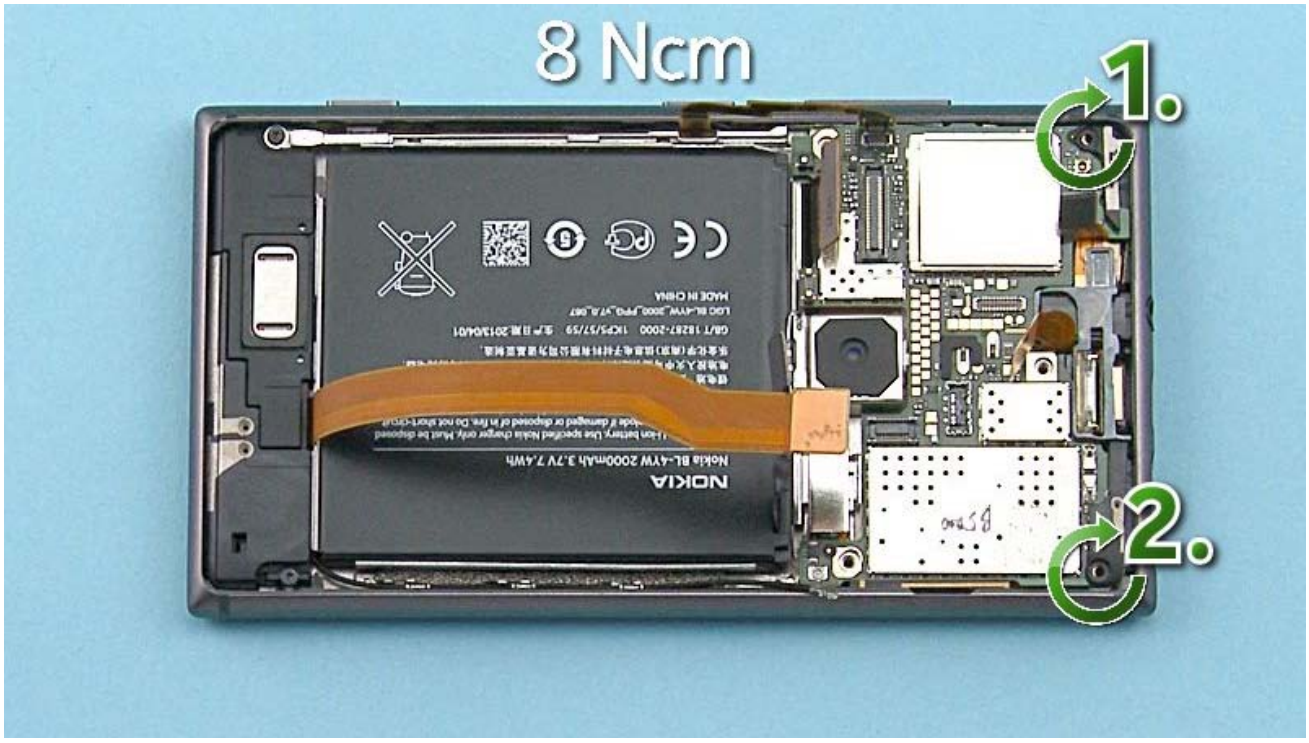
33) Place the ENGINE BOARD to the METAL DECO bottom end first. Guide the connectors away with the SS-93. Be careful not to damage or leave any connectors underneath the ENGINE BOARD.



34) Press the ENGINE BOARD gently until it snaps to its place.

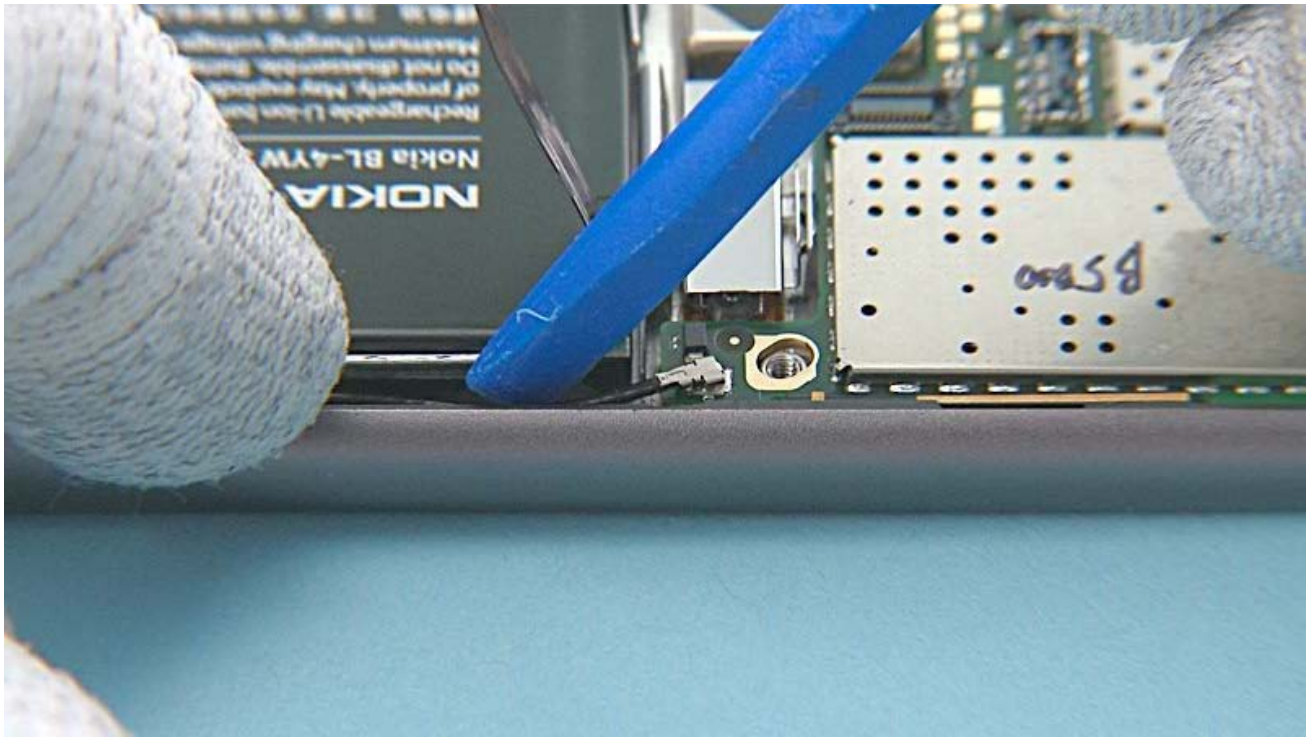


35) Place the MIMO ANTENNA.



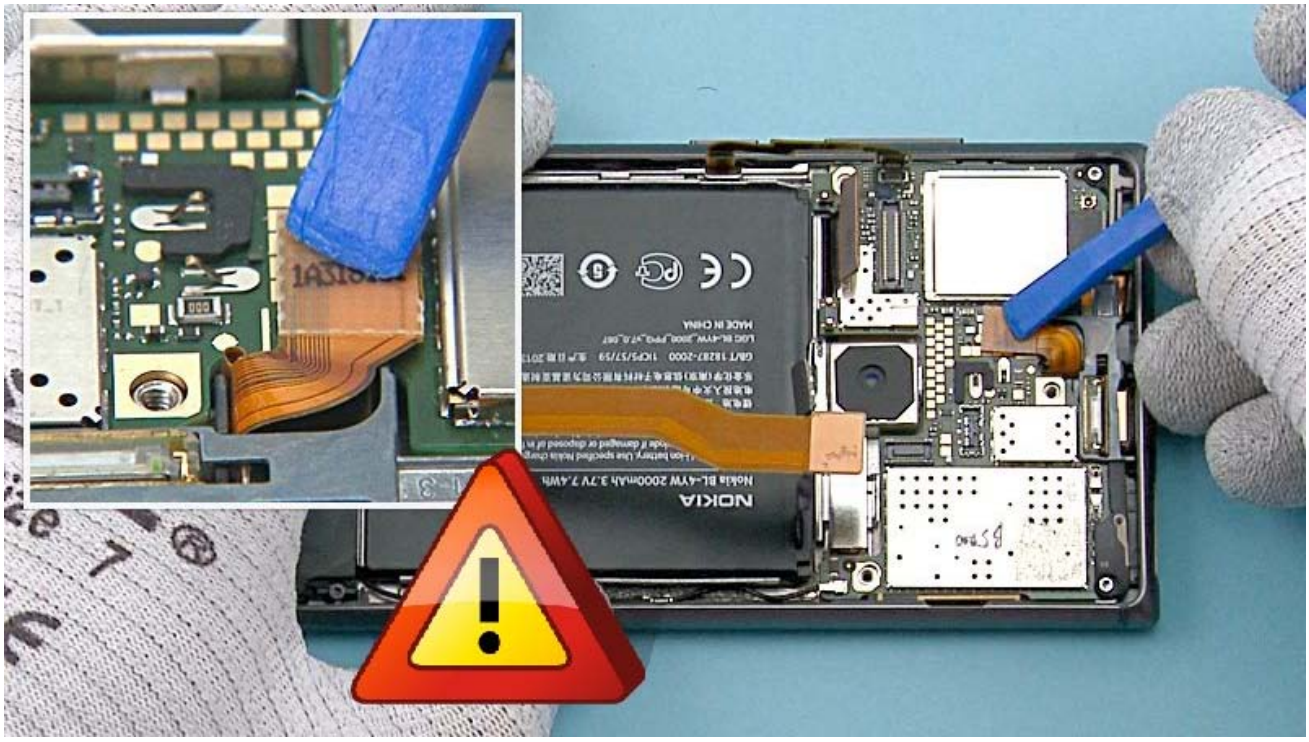
36) Fasten the two TORX+ size 4 screws in the order shown to the torque of 8 Ncm.

37) Lock the SS-231 tool to the ANTENNA COAX CABLE connector and connect it. Be careful not the damage the connector.

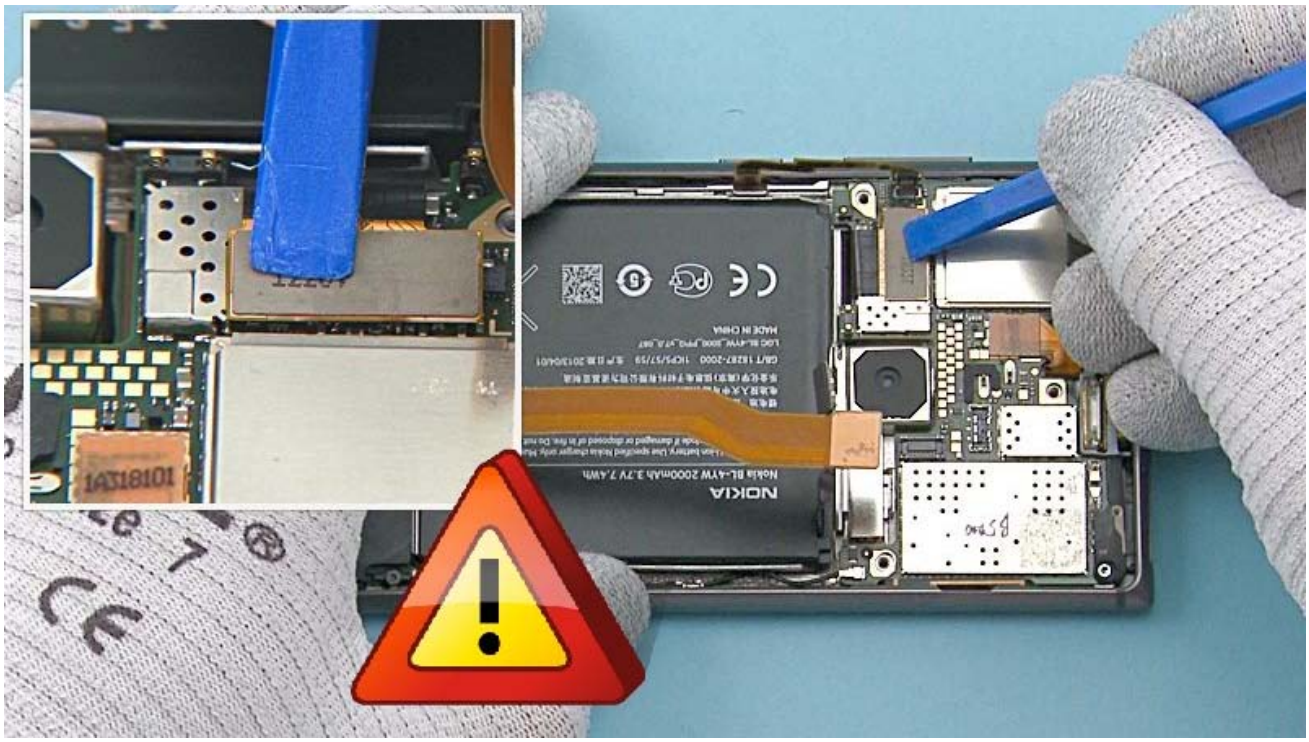


38) Make sure that the ANTENNA COAX CABLE stays in its cavity.

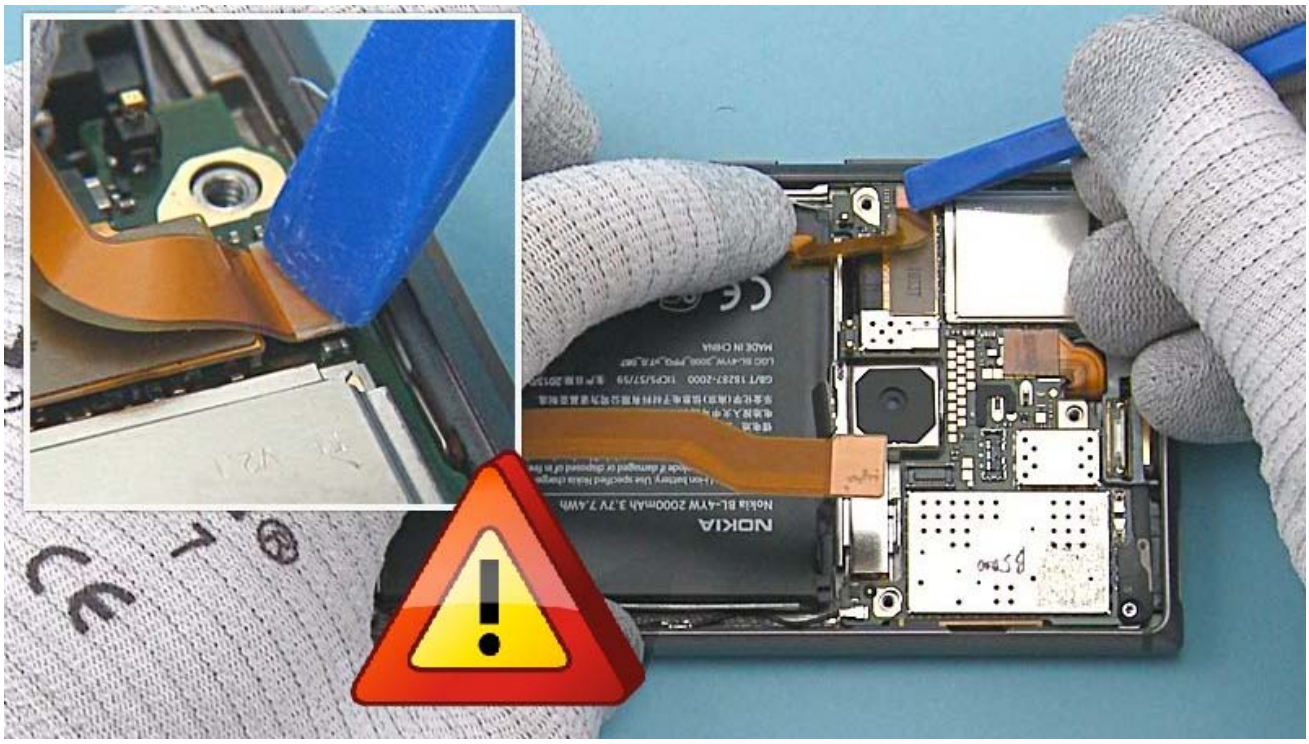
39) Connect the FRONT CAMERA connector with the SS-93. When connecting connectors, be careful not damage them or any components nearby.



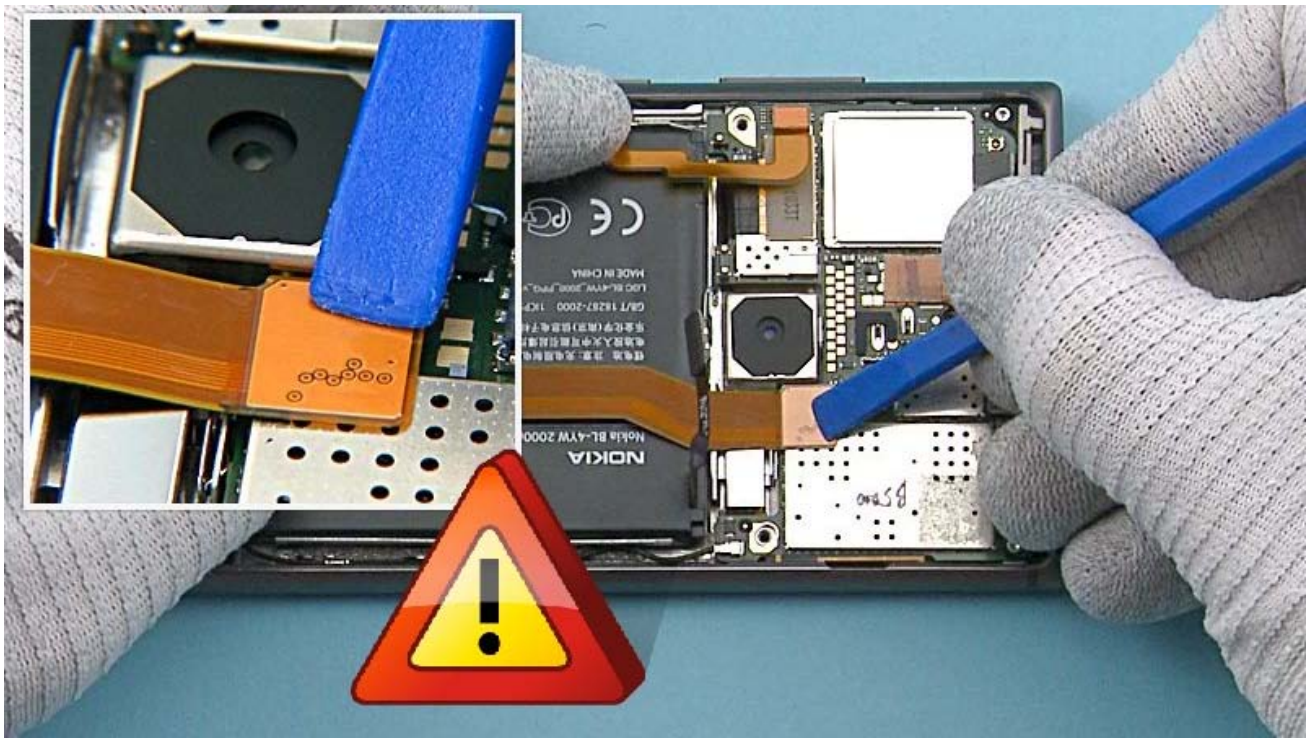
40) Connect the CONNECTOR ASSEMBLY connector with the SS-93.



41) Connect the DISPLAY connector with the SS-93.

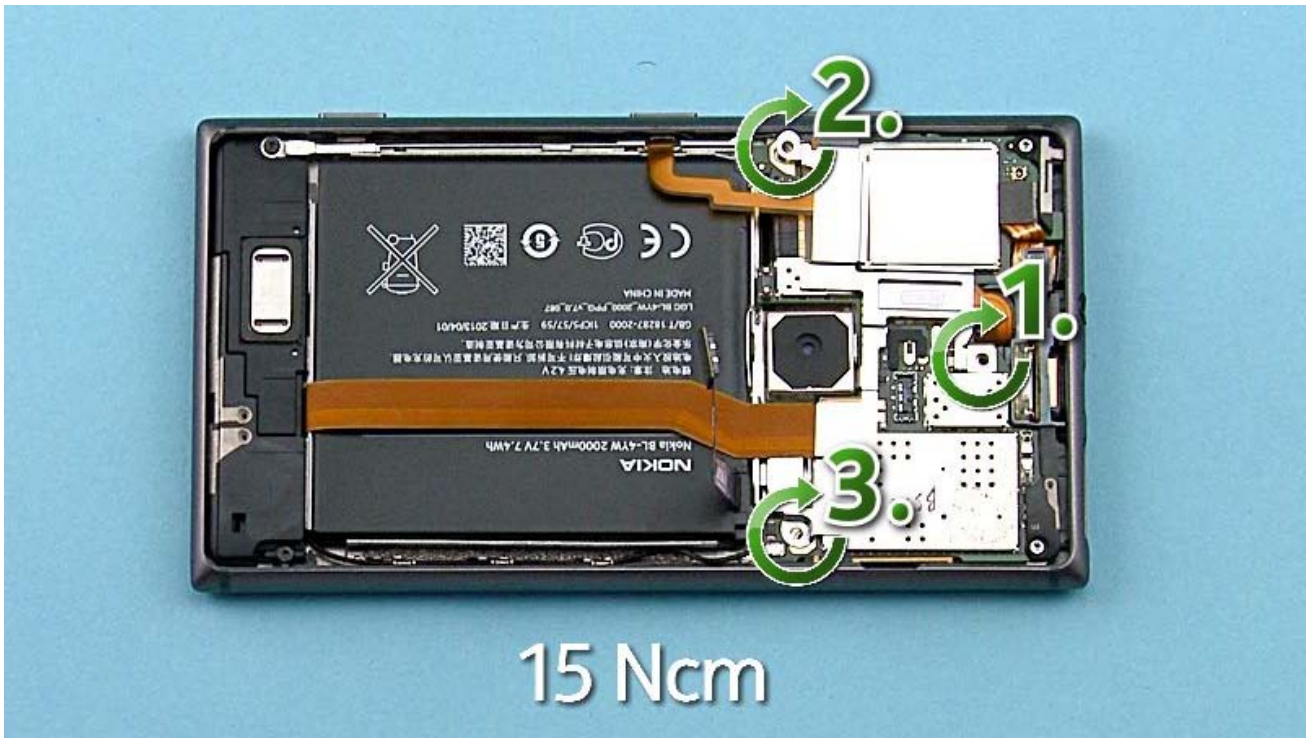


42) Connect the SIDE KEY ASSEMBLY connector with the SS-93.

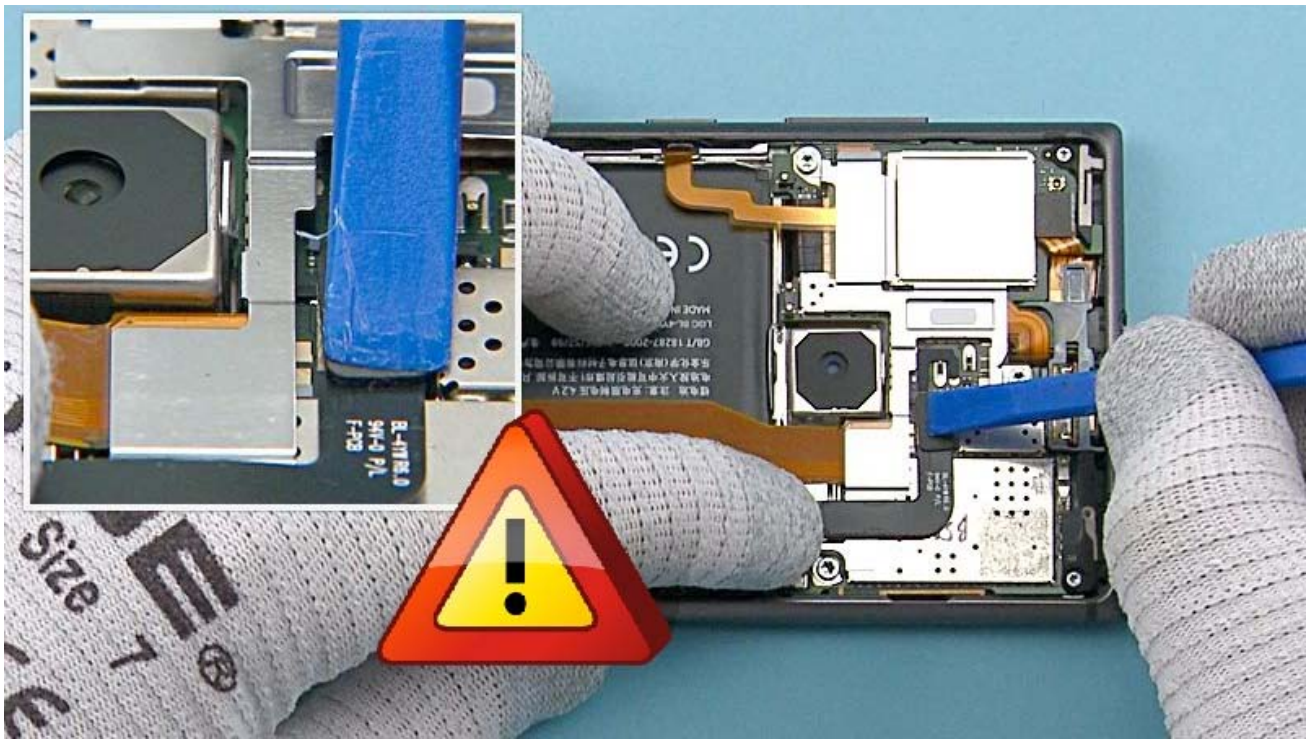


43) Connect the BOTTOM FLEX connector with the SS-93.

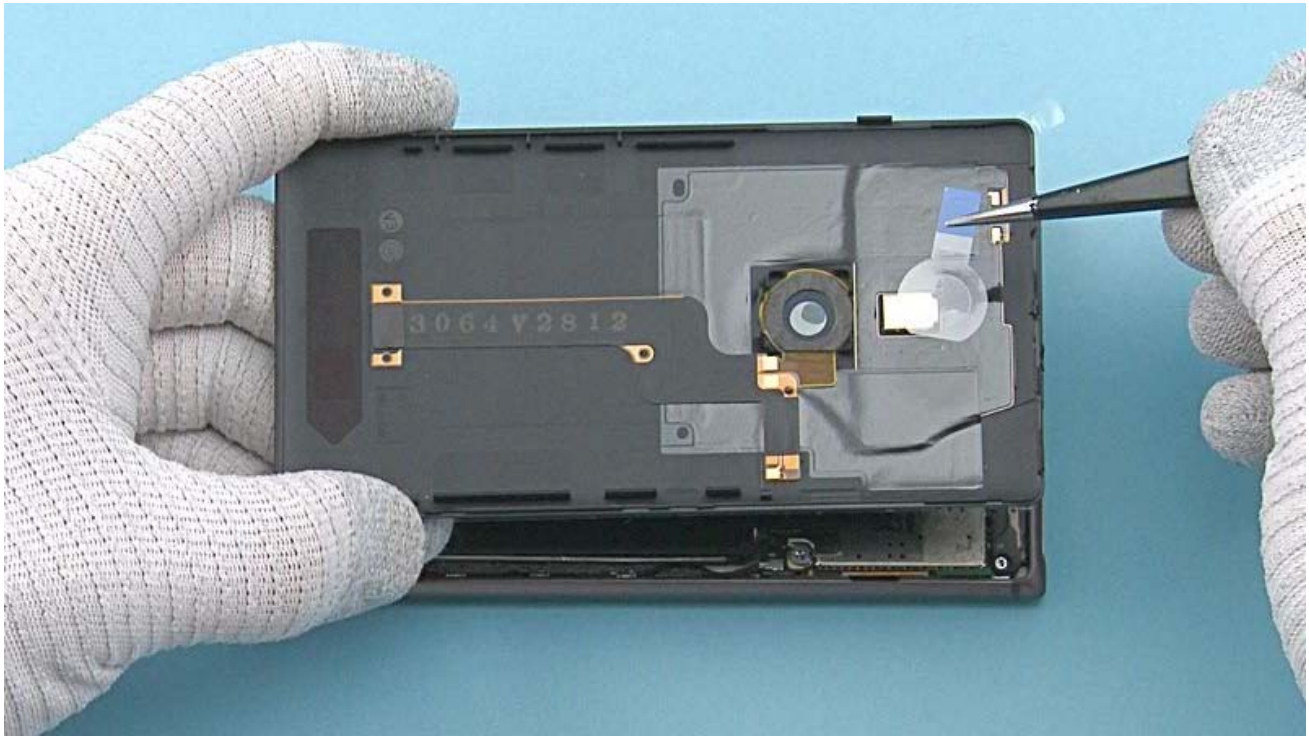
44) Place the CONNECTOR SUPPORT FRAME.



45) Fasten the three TORX+ size 6 screws in the order shown to the torque of 15 Ncm.



46) Connect the BATTERY connector. Make sure to connect the BATTERY connector last to avoid short circuit. Be careful not to damage the connector or any components nearby.



47) Remove the camera opening protective film.

48) Place the BACK COVER and press from the shown places to attach the right side of the back cover first.

49) Attach the bottom end of the BACK COVER by pressing from the shown places.

50) Then attach the left side of the BACK COVER by pressing from the shown places.

51) Attach the top end of the BOTTOM COVER. You might need to push the BACK COVER slighty towards bottom end of the phone and then press the BACK COVER to its place.

52) Remove the BACK COVER protective film.

53) Push in the SIM TRAY.

54) Remove the DISPLAY protective film.

55) The Nokia Lumia 925 assembly procedure is complete.

-END OF ASSEMBLY-

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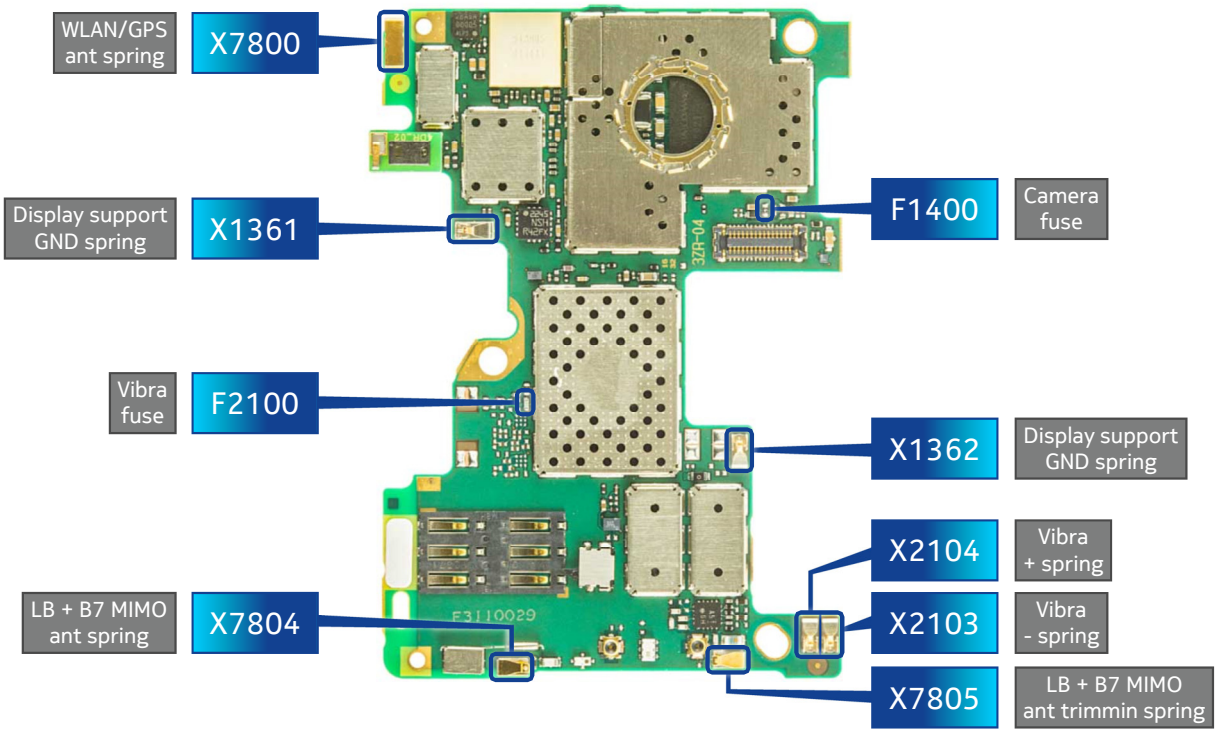
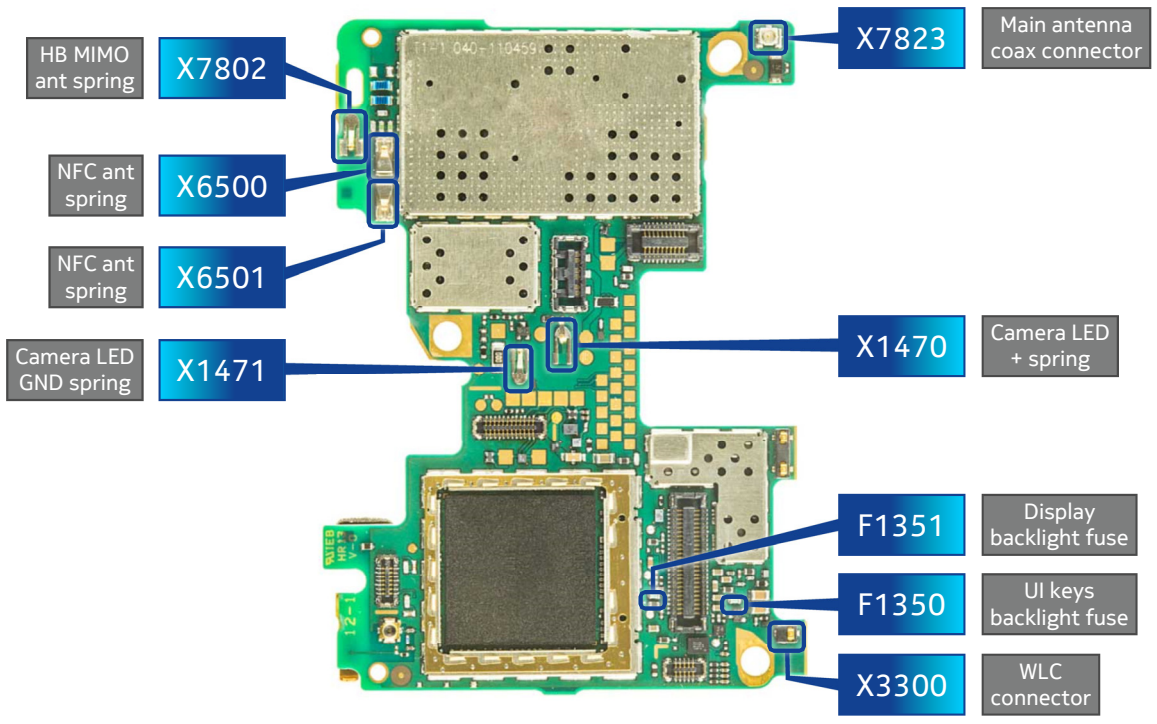
Solder components

TOP



BOTTOM



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Service devices

CA-190CD Service cable	AC-50 USB charger	SIM door key
SS-311 Back cover release tool	SS-231 RF connector disassembly/assembly tool	SS-317 Battery removal tool
SS-318 Protective cover	Nokia Standard Toolkit (v2) For more information, refer to the Service Bulletin (SB-011) on Nokia Online. Supplier or manufacturer contacts for tool re-order can be found in “Recommended service equipment” document on Nokia Online.	

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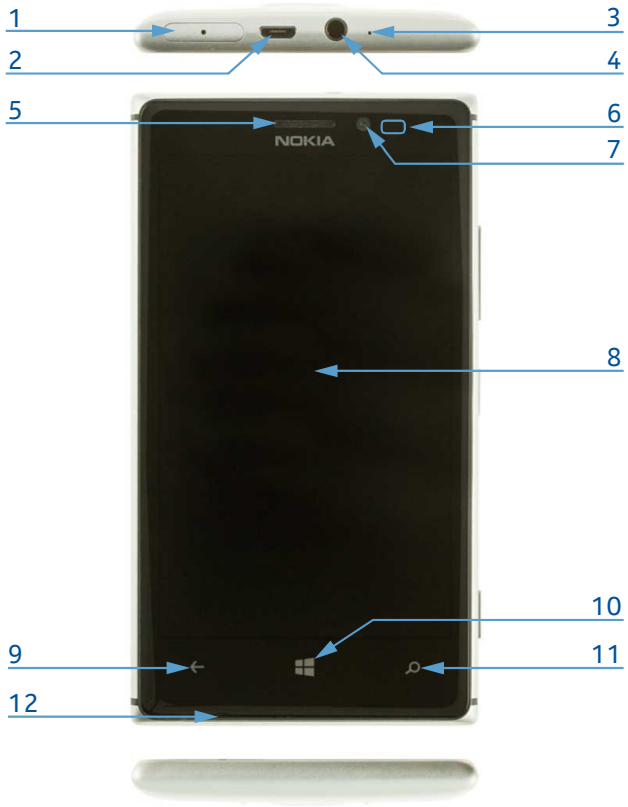
Product controls and interfaces



1 — Micro-SIM holder
2 — Micro-USB connector
3 — Secondary microphone
4 — 3.5 mm AHJ connector
5 — Earpiece
6 — Ambient light & proximity sensor
7 — Front camera
8 — Touch display
9 — Back key
10 — Start key
11 — Search key
12 — Microphone
13 — Dual LED flash
14 — Main camera
15 — Volume keys
16 — Power/Lock key
17 — WLC cover contacts
18 — Camera key
19 — Loudspeaker
20 — MIMO antenna
21 — WLAN/GPS antenna
22 — NFC area
23 — Main antenna

v1.0

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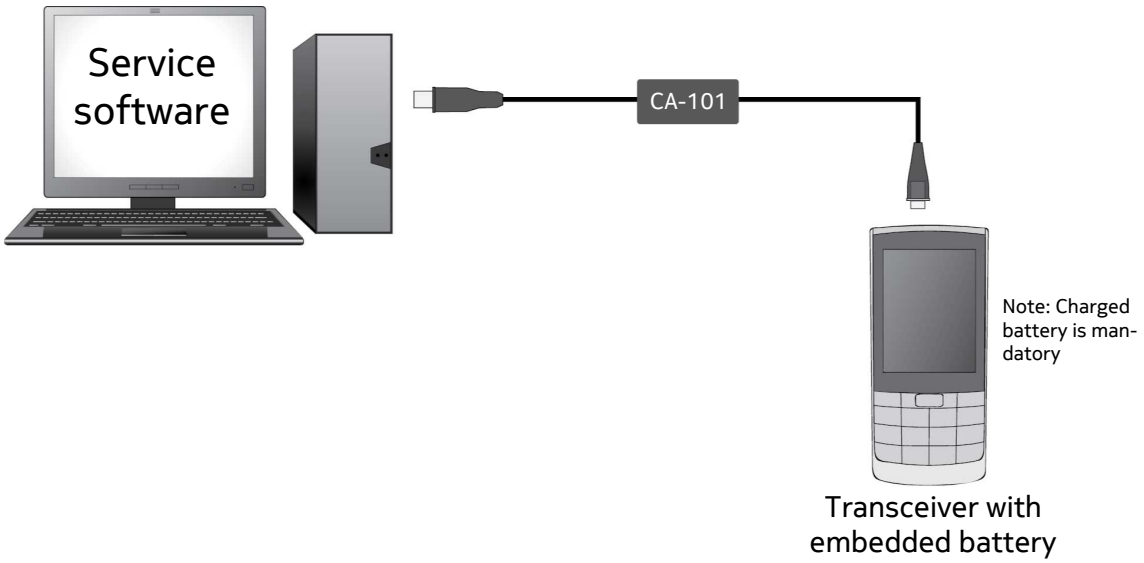
Flashing concept



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Hardware reset

If the phone hardware is jammed, you should first recommend that the consumer performs a hardware reset. The hardware reset does not reset the Windows Live ID or remove any consumer data. Because the consumer cannot remove the battery to reset the phone the phone has a special electronic circuit which cuts the phone power when the volume down and power keys are pressed for 10-15 seconds.

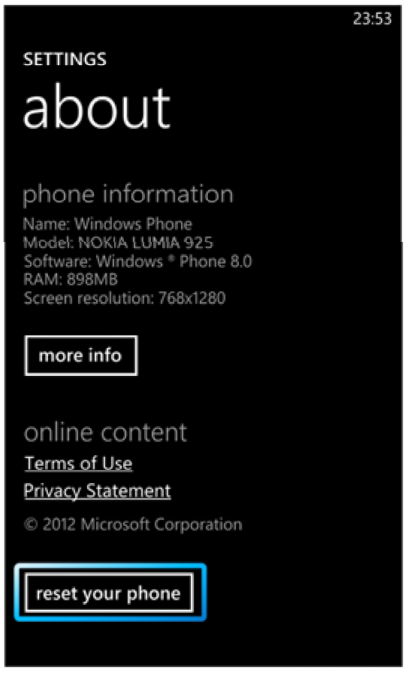
To perform the hardware reset, press and hold the Volume down and Power keys at the same time for about 10-15 seconds until a short vibration is felt. The phone should restart by itself.

Software / operating system (OS) reset

The software / operating system (OS) reset returns the phone to its out-of-the-box state. Note that this procedure erases all consumer data! Always first try to perform a hardware reset.

Option 1: About menu

- Use this option if the consumer knows the lock code
- This option warns the consumer about data loss!
- Tap **Settings > About > reset your phone**



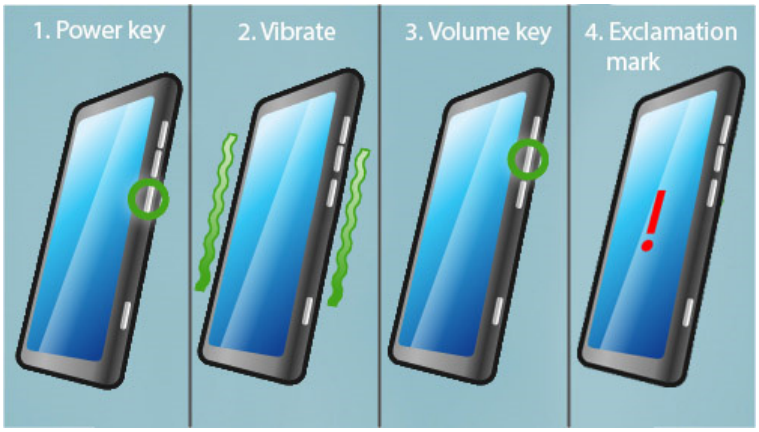
Option 2: Hardware key combination

- Use this option if the phone is locked and the consumer does not know the code
- Note: no warning about data loss!
- Do not advertise this feature to consumers!

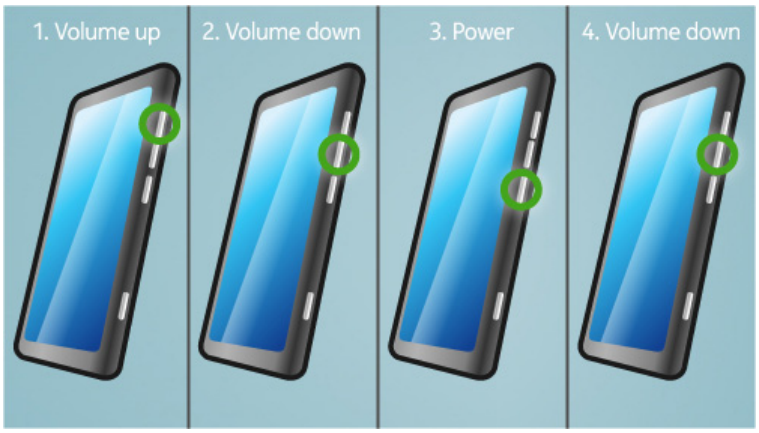
Follow next steps to perform OS reset with phone keys.

Step 1
Make sure the phone is turned Off.

1. Press and hold the power key
2. Phone vibrates (release the power key)
3. Press and hold the volume down key
4. Exclamation mark is shown on the screen (release the volume down key)



Step 2
Input the following key combination:
1. Volume up
2. Volume down
3. Power
4. Volume down



Step 3
The phone will reset and boot up automatically

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Version history

Version	Date	Description
1.0	23.05.2013	First published version

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